Final Report
for Remediation of
Locations in Granite
City, Madison and
Venice, Illinois,
Associated with NL
Industries/Taracorp
Superfund Site

Submitted to:

United States Army Corps of Engineers

Omaha, Nebraska

Submitted by:

OHM Remediation Services Corp.

May 19, 1995

APPENDIX A	

### AIR MONITORING DATA

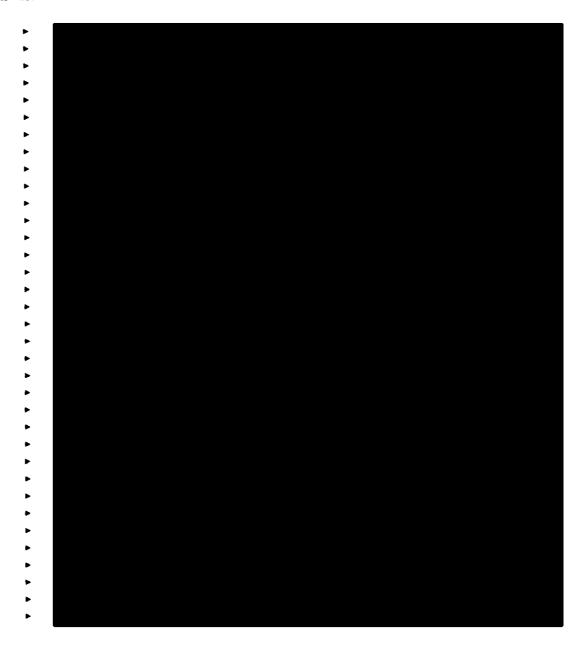
All sites in all phases of the Granite City project had air monitoring done throughout the work process. The following table includes an example of air monitoring results that were typical of each site on the Granite City project. Every site is not presented in the final report to minimize the volume of paper.

### U.S. ARMY CORP OF ENGINEERS--JOB #13407 PERIMETER AIR SAMPLE LOG--LEAD

SAMPLE NUMBER	LOCATION	ACTIVITY	SAMPLE TIME	SAMPLE RESULTS	REPORT DATE	PERFORMED BY
AL4401J506	UPWIND ALLEY 44	LOADING TRUCKS	450 MIN	<.00030MG/M3	10/12/95	CHEMTEX
AL4402J506	DOWNWIND ALLEY44	LOADING TRUCKS	480 MIN	<.00030MG/M3	10/12/95	CHEMTEX
AL4403J506	DOWNWIND ALLEY44	LOADING TRUCKS	465 MIN	<.00030MG/M3	10/12/95	CHEMTEX
AL4404J506	BLANK	NA	NA	<.00125MG\FILTER	10/12/95	CHEMTEX
AL4501JK01	UPWIND ALLEY 45	LOADING TRUCKS	150 MIN	.0042MG/M3	10/12/95	CHEMTEX
AL4502JK01	DOWNWIND ALLEY 45	LOADING TRUCKS	150 MIN	0078MG/M3	10/12/95	CHEMTEX
AL4503JK01	DOWNWIND ALLEY 45	LOADING TRUCKS	150 MIN	.0035MG/M3	10/12/95	CHEMTEX
AL4504JK01	BLANK	NA	NA	<.00125MG\FILTER	10/12/95	CHEMTEX

### **WORK SUMMARIES**

The following work summaries outline the action dates, construction summaries, problems encountered and resolutions, quantity summaries, and verification analytical for the following locations:



```
ALLEY #53, VENICE, ILLINOIS
ALLEY #49, VENICE, ILLINOIS
ALLEY #62, VENICE, ILLINOIS
ALLEY #6, VENICE, ILLINOIS
ALLEY #7.5, VENICE, ILLINOIS
ALLEY #65, VENICE, ILLINOIS
ALLEY #65.5, VENICE, ILLINOIS
ALLEY #62.5, VENICE, ILLINOIS
ALLEY #13, VENICE, ILLINOIS

ALLEY #19, VENICE, ILLINOIS

ALLEY #19, VENICE, ILLINOIS

ALLEY #36.5, McKINLEY STREET, VENICE, ILLINOIS
ALLEY #54.5, WEBER STREET, VENICE, ILLINOIS
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#### MISSOURI AVENUE

Action Date: April 20,1993

Loadout: June 9,1993

**Restoration Begins**: June 9,1993

**Restoration Completed**: June 30, 1993

Visual contamination was excavated yielding an estimated 3,400 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.

- The remaining excavation yielded an estimated 160 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- Excavation depth ranged between 2.5 and 3 feet.
- ► After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable
- During the restoration phase, the stone driveway was replaced with concrete, at the direction of USACE.
- ▶ During the excavation phase, the telephone line was broken. This was repaired within the week.
- During the remediation activities, the homeowner was housed in a hotel.
- Equipment utilized during excavation:
  - Cat 215 Trackhoe (OHM).
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Ingersol-Rand 10-ton Drum Compactor (Rental).
  - Water Truck (Rental).

- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Metro East Sand
    - Backfill
    - Topsoil
  - Bellefontaine Quarry
    - Stone
  - L. Wolf Co.
    - Concrete
  - Munie Outdoor Construction Co.
    - Sod Installation and Maintenance
- Quantity Summaries:
  - See Figure A.1
- Verification Analytical:
  - See Figure A.2

SITE NAME MISSOURI AVE

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE CONCRETE
MO AVE	3400	160				41 TONS		1633 TON	1300 TON	834.64 SQ YD

## OHM CORPORATION PROJECT 13407

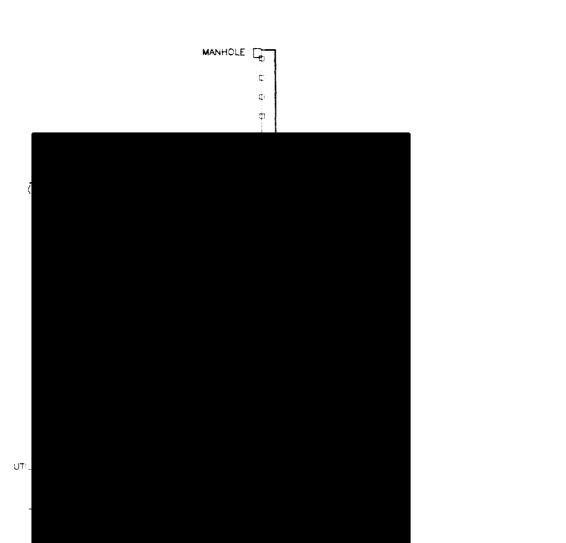
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: MISSOURI AVENUE

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SMO136	418	
SMO137	626	
SMO138	503	
SMO139	1706	
SMO140	755	
SMO141	238	
SMO142	225	
SMO143	165	
SMO144	171	
SMO145	37	
SMO146	494	
SMO147	792	
SMO148	54	1
SMO149	39	
SMO150	232	
SMO151	507	
SMO152	201	
SMO153	424	-
SMO154	141	
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## ECC RESULTS MISSOURI AVENUE

<b>SECTION NUMBER</b>	<b>RESULTS MG/KG</b>	<b>SECTION NUMBER</b>	<b>RESULTS MG/KG</b>
SMO33428	176	SMO38898	208
SMO33529	23.9	SMO39067	133
SMO33630	435	SMO39269	131
SMO33731	338	SMO393100	236
SMO33832	16.2	SMO394101	133
SMO33933	188	SMO39570	77
SMO34034	120	SMO39671	63
SMO34135	362	SMO39772	142
SMO34236	26.1	SMO39873	69.6
SMO34337	11	SMO39974	131
SMO34438	263	SMO40075	93.9
SMO34539	78.2	SMO401102	71.2
SMO34640	55.7	SMO403103	211
SMO34741	75.9	SMO404104	70
SMO34842	158	SMO405105	108
SMO34943	273	SMO406106	191
SMO35044	415	SMO40719	33.9
SMO35145	458	SMO408B76	26.4
SMO35347	246	SMO40977	10.3
SMO35448	214	SMO41078	64.8
SMO35549	118	SMO41179	146
SMO35650	131	SMO41280	236
SMO35751	164	SMO43017	262
SMO35852	195	SMO43118	22.2
SMO35953	264	SMO432124	*2730
SMO36054	147	SMO433107	24.4
SMO36155	80.8	SMO434108	17
SMO362116	9.4	SMO435109	22.2
SMO36389	297	SMO442119	67.8
SMO36490	49.7	SMO443120	13.7
SMO36591	29.3	SMO444121	127
SMO36692	23.8	SMO445122	115
SMO36793	30.3	SMO439110	48.4
SMO36894	332	SMO440111	300
SMO36957	167	SMO441112	22.3
SMO37058	207	SMO30617	93
SMO38159	146	SMO30718	246
SMO37396	47.5	SMO30819	158
SMO37495	106	SMO30920	171
SMO37599	18.9	SMO31021	110
SMO37797	31.5	SMO31022	204
SMO37860	168	SMO30123	345
SMO38061	280	SMO30124	178
SMO38162	89.4	SMO31025	67.6
SMO38263	174	SMO31026	64.7
SMO38464	246		
SMO38665	114		
SMO38766	416		

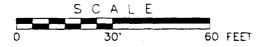


### General Notes:

MISSOURI

- HAND AUGER BORING LOCATION
- DRILLING RIG BORING LOCATION

NOTE: RESIDENT INDICATED THAT LAND NORTH OF DASHED LINE IS LEASED RR PROPERTY.



REMOTE FILL AREAS: MISSOUR: AVENUE

AVENUE

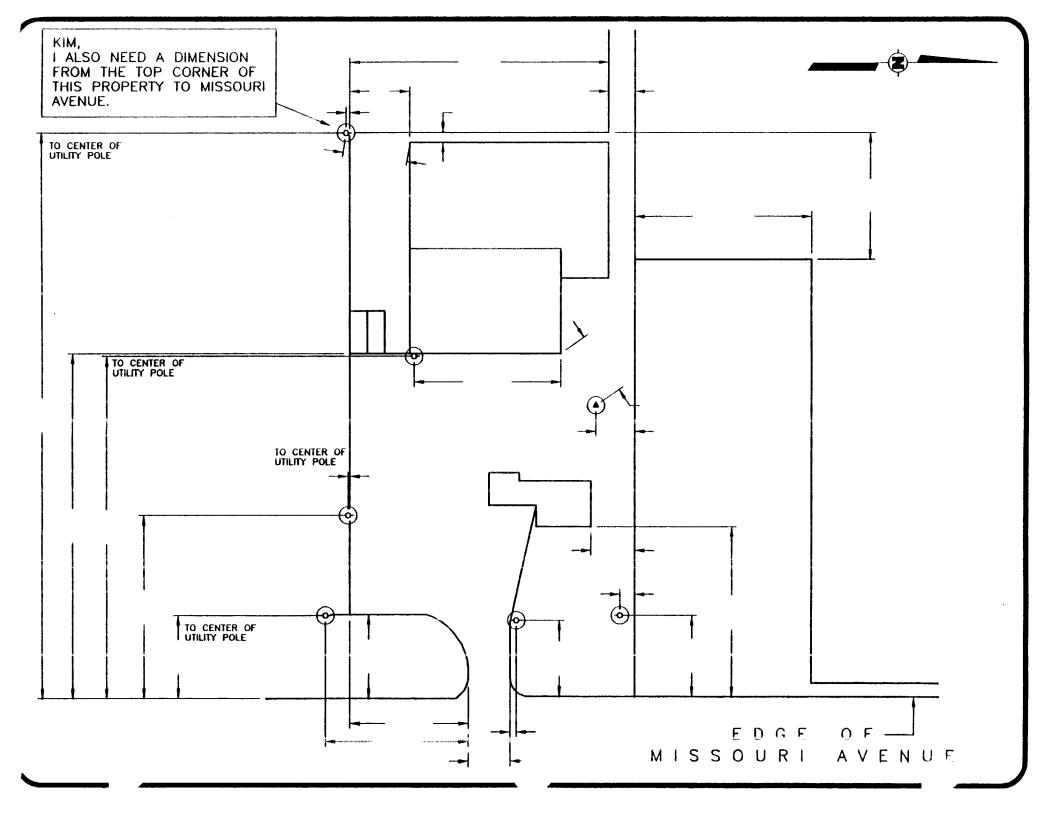
GRANITE CITY
GRANITE CITY, ILLINOIS



Drawn By: Checked By:
L.DLHIGG

Date Approved By
8-12-93

Scale: AS SHOWN Drawing No: 13407-A6



### ΓERRY ST.

Action Date: May 10,1993
Loadout: June 6,1993
Restoration Begins: June 6,1993
Restoration Completed: June 15, 1993

- Visual contamination was excavated yielding an estimated 852 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- The remaining excavation yielded an estimated 580 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- Excavation depth ranged between 1 and 1.5 feet.
- After grass seed was broadcast, Munie Outdoor Construction Co. crews watered until grass was stable.
- ▶ During the restoration phase, L. Wolf Co. replaced the stone driveway with a 12 X 24 foot concrete pad, per the direction of USACE.
- Equipment utilized during excavation:
  - Cat 215 Trackhoe (OHM).
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Ingersol-Rand 10-ton Drum Compactor (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna

- -Special Waste Disposal.
- Metro East Sand
  - Backfill
  - Topsoil
- Bellefontaine Quarry
  - Stone
- · L. Wolf Co.
  - Concrete
- Munie Outdoor Construction Co.
  - Sod Installation and Maintenance
- Quantity Summaries
  - See Figure B.1
  - Verification Analytical:
  - See Figure B.2

SITE NAME TERRY

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS CA-	6 TONS BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE CONC	RETE
203/205	852	580		2017 TON		SEED				SQ YD

### OHM CORPORATION PROJECT 13407

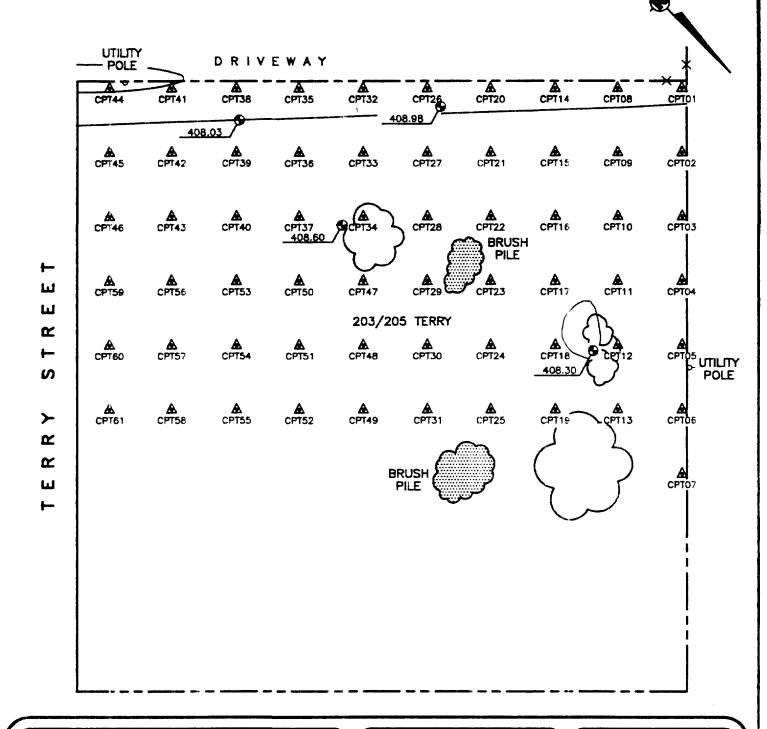
### PRE-CHARACTERIZATION SAMPLING RESULTS

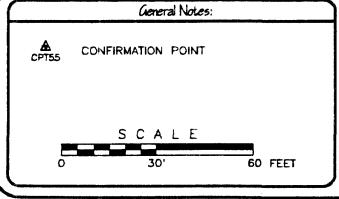
SITE NAME: TERRY

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SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
ST001	736	
ST002	73	
ST003	461	
ST004	306	
ST005	235	
ST006	399	
ST007	459	
ST008	669	
ST009	616	
ST010	35	
ST011	ND	
ST012	158	
ST013	227	
ST014	ND	
ST015	77	
ST016	20	
ST017	52	
ST018	1987	
ST019	99	
ST020	52	***
ST021	61	
ST022	275	
ST023	ND	
ST024	172	
ST025 ST026	1561	
31020	2358	
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# ECC RESULTS

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
ST05409	31	ST08839	193
ST05510	56.8	ST08940	408
ST05611	78.5	ST09041	49.3
ST05712	36.2	ST09142	134
ST05813	22.1	ST09344	340
ST05914	174	ST09445	135
ST06015	71.4	ST09748	104
ST06116	76,8	ST09849	217
ST06217	39.7	ST10555	46.3
ST06318	196	ST10656	90
ST06419	193	ST10757	81.4
SST06520	317	ST10858	46.1
ST06621	111	ST10959	177
ST06722	191	ST11060	308
ST06823	64.7	ST11161	73.6
ST06924	31.3	ST11262	160
ST07025	69.3	ST11363	494
ST07126	107	ST11464	34.3
ST10051	16.3	ST11565	80.9
ST07327	245	ST11666	350
ST07428	108	ST11767	32.6
ST07529	150	ST11868	24.8
ST07630	15.2	ST12069	96.5
ST07731	74.4	ST12170	5.6
ST07832	318	ST12271	348
ST10152	47.1	ST12372	16.1
ST08033	65.5	ST12973	51.1
ST010253	22.7		
ST010454	14.2		
ST08334	30.9		
ST08435	424		
ST08536	153		
ST08637	12.7		
ST08738	83.5		





REMOTE FILL AREAS: 203/205 TERRY STREET (EAGLE PARK ACRES) **CRANME CITY** 

CRANITE CITY, LLINOIS

OHM	Corporation

Drawn By: LDLHIGG	Checked Bu:
Date:	Approved By:
8-11-93	QUH.
Scale:	Drawing No:
AS SHOWN	13407-A2

Action Date:May 10,1993Loadout:June 7.1993Restoration Begins:June 8,1993Restoration Completed:July 10, 1993

- Visual contamination was excavated yielding an estimated 309 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- No special waste was excavated.
- Excavation depth ranged between 14 and 16 inches.
- After grass seed was broadcast, Munie Outdoor Construction Co. crews watered until grass was stable.
- Equipment utilized during excavation:
  - Cat 215 Trackhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - · Beelman Truck Co.
    - Hauled Hazardous Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Metro East Sand
    - Backfill
    - Topsoil
  - Bellefontaine Quarry
    - Stone
  - · L. Wolf Co.
    - Concrete

- Munie Outdoor Construction Co.
  - Grass Seed and Maintenance
- Quantity Summaries:
  - See Figure C.1
- Verification Analytical:
  - See Figure C.2

SITE NAME HILL

SITE#	HAZ CU YD	SPEC CU YD C	A-7 TONS CA-6 TONS	BACKFILL SAND	SEED/SOD	ROCK	TOP SOIL 3" STONE	CONCRETE
101/201	309				SEED		450 TON	

## OHM CORPORATION PROJECT 13407

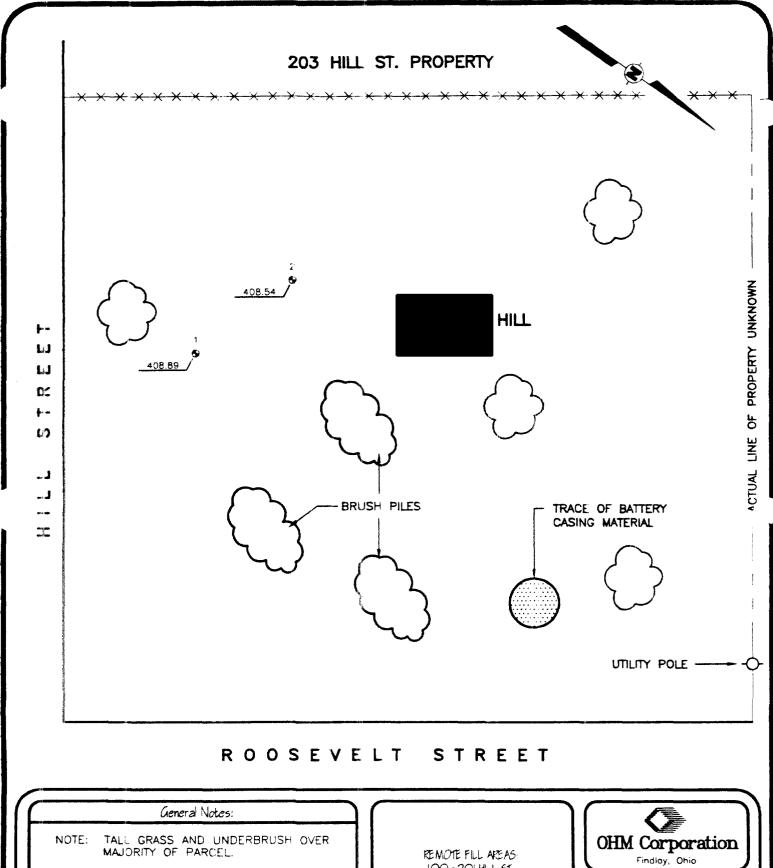
### 'RE-CHARACTERIZATION SAMPLING RESULTS

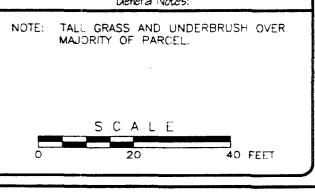
SITE NAME: HILL

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SH001	183	
SH002	571	
SH003	619	
SH004	326	and the state of t
SH005	636	
SH006	1439	
SH007	351	
SH008	114	
SH009	91	
SH010	28	
SH011	ND	
SH012	41	
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SH013	ND	
SH014	31	the set existence and a set of the set of th
SH015	ND 467	to crime and a contract of the
SH016	167	
SH017	ND	
SH018	ND	
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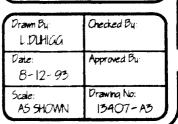
## ECC RESULTS

RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
29.2		
16.2		
10.5		
13.9		
311		
163		
17.5		
238		
201		
48.5		
13		
130		
143		
37.8		
27.8		
15.5		
204		Pro-Control Mark Control Contr
458		
164		
177		
17.1		The first time the second of t
69.9		
113		
134		
156		
284		
166		
175		
136		
168		
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	29.2 16.2 10.5 13.9 311 163 17.5 238 201 48.5 13 130 143 37.8 27.8 15.5 204 458 164 177 17.1 69.9 113 134 156 284 166 175 136	16.2 10.5 13.9 311 163 17.5 238 201 48.5 13 130 143 37.8 27.8 15.5 204 458 164 177 17.1 69.9 113 134 156 284 166 175 136





REMOTE FILL AREAS: 100-201 HILL ST. (EAGLE PARX ACRES) GRANITE (ITY GRANITE (ITY, ILL INOIS





Action Date:May 10.1993Loadout:June 8,1993Restoration Begins:June 9,1993Restoration Completed:July 14, 1993

- Visual contamination was excavated, yielding an estimated 846 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- No special waste was excavated.
- Excavation depth ranged between 13 and 15 inches.
- At sample points number 21, 27, 34, and 42, a trash landfill was discovered at a depth of four feet. OHM was directed by USACE to cover the landfill area with a 40 mil geotextile liner, sand, backfill, and then to cap the area with a 12 inch layer of clay soil.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- During the restoration phase, the stone driveway was replaced with concrete, at the direction of USACE.
- During the remediation activities, the homeowner was housed in a hotel.
- Equipment utilized during excavation:
  - Cat 215 Trackhoe (OHM).
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Water Truck (Rental).
- Subcontractors
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal

- Metro East Sand
  - Backfill
  - Topsoil
- Bellefontaine Quarry
  - Stone
- L. Wolf Co.
  - Concrete
- Munie Outdoor Construction Co.
  - Sod Installation and Maintenance
- ► Quantity Summaries:
  - See Figure D.1
- ► Verification Analytical:
  - See Figure D.2

SITE NAME ARRISON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE   CONCRETE
202A	846			1789 TON	424 TON	SEED			208.6 SQ YD

### OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: ARRISON

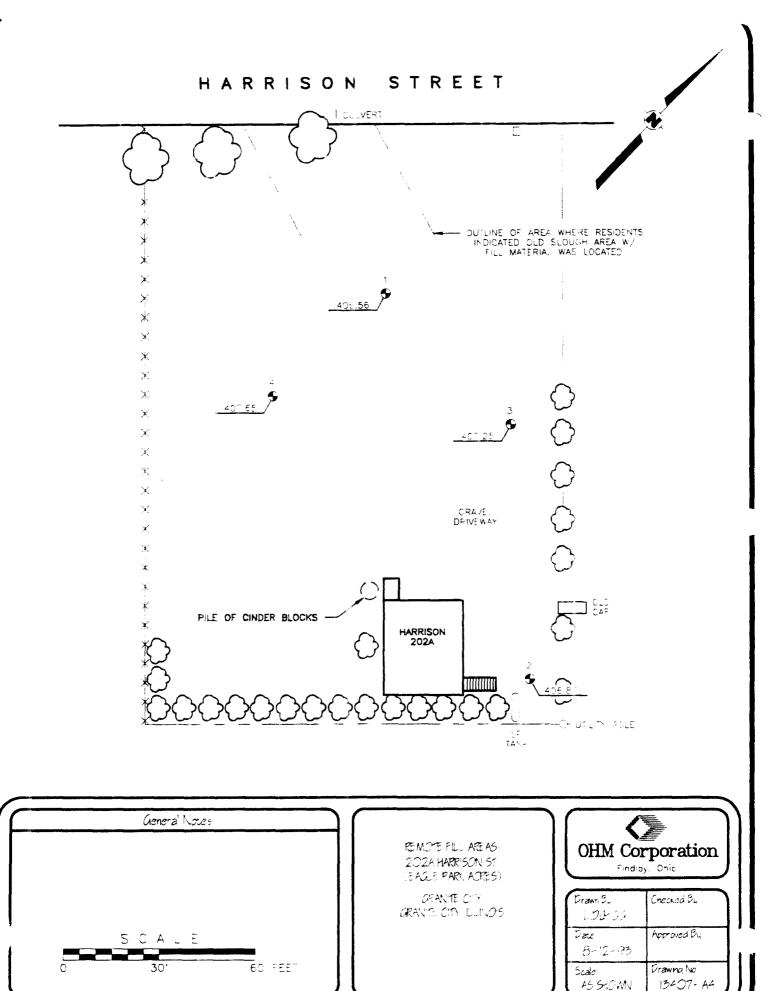
SAMBLE	TOTAL LEAD	TOURIERD
SAMPLE	TOTAL LEAD	
NUMBER	MG/KG	MG/L
SHA001	351	
SHA002	266	h a sharanna sharan sanahanna an anasan " " " " " " " " " " " " " " " " " " "
SHA003	513	
SHA004	47	
SHA005	44	
SHA006	45	
SHA007	53	
SHA008	53	e per l'element mane centralisation de l'année de l'ann
SHA009	36	
SHA010	89	
SHA011	65	
SHA012	ND	
SHA013	104	
SHA014	51	<del>-</del>
SHA015	2298	
SHA016	59	
SHA017	246	
SHA018	167	
SHA019	4815	
SHA020	325	
SHA021	3100	_
SHA022	192	
SHA023	132	
SHA024	21	
SHA025	146	
SHA026	<b>8</b> 8	
SHA027	586	
SHA028	158	
SHA029	ND	
SHA030	189	to the discount owner. Consumer over the consumer of the con-
SHA031	ND	The second secon
SHA032	95	to the second se
SHA033	ND	
SHA034	559	
SHA035	385	
SHA036	245	to the state of th
SHA037	160	-
SHA038	226	to the control of the
SHA039	458	
SHA040	517	
SHA041	637	
SHA042	1416	- 13
SHA043	244	
SHA044	195	
SHA045	33	7 AD 11 THE TOTAL
SHA046	22	
SHA047	ND	
SHA048	123	
SHA049	142	
SHA050	76	
SHA051	188	
<u> </u>	100	



SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
SHA067	•		
SHA06805	306		
SHA069	*		
SHA07006	360		
SHA07107	215		
SHA07208	284		
SHA07309	14.2		
SHA07410	178		
SHA07511	*		
SHA07612	411		
SHA077			
SHA07813	83		
SHA07914	397		
SHA08015	14.9		
SHA081	*		
SHA10231	96.4		
SHA08316	93.8		
SHA08417	114		to Mark Andrewson, and the second sec
SHA08518	325		
SHA08619	52.8		
SHA08720	137		
SHA08821	196		
SHA08922	167		
SHA09023	39.4		
SHA09124	202		
SHA09225	279		
SHA09326	12.7		
SHA09427	40		
SHA09528	33.5		THE THE ST. I SHALL AND A SECOND ST. I SHALL A
SHA09629	21.7		
SHA09730	136		
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<sup>\*</sup> SAMPLE POINTS 1, 3, AND 5 WERE NOT COLLECTED FOR CONFIRMATION DUE TO THE DISCOVERY OF THE LANDFILL. THE EXCAVATION WAS HALTED PER USACE

SAMPLE POINTS 9, 10, 11, AND 15 WERE NOT COLLECTED FOR CONFIRMATION SINCE THE AREA WAS TO BE CAPPED WITH CLAY.



#### ABBOTT AVENUE ALLEY

Action Date:May 13, 1993Loadout:May 28, 1993Restoration Begins:June 1, 1993Restoration Completed:June 30, 1993

- Visual contamination was excavated yielding an estimated 422 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- ► The remaining excavation yielded an estimated 120 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- ▶ Due to the high level of contamination after reaching the USACE predetermined excavation depth of one foot, the excavation was covered with four inches of CA-6 stone and compacted to 95%. The alley was then capped with an eight inch layer of concrete.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM)
  - Komatsu 690 Trackhoe (Rental).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna
    - Special Waste Disposal.
  - Metro East Sand
    - Backfill
    - Topsoil
  - Bellefontaine Quarry

- Stone
- L. Wolf Co.
  - Concrete
- Quantity Summaries:
  - See Figure E.1
- Verification Analytical:
  - See Figure E.2

SITE NAME ABBOTT AVE

SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS CA-6 TONS	BACKFILL SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	CONCRETE
ABBOTT	422	120						371.7 TON	1000.8 SQ YD

## OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

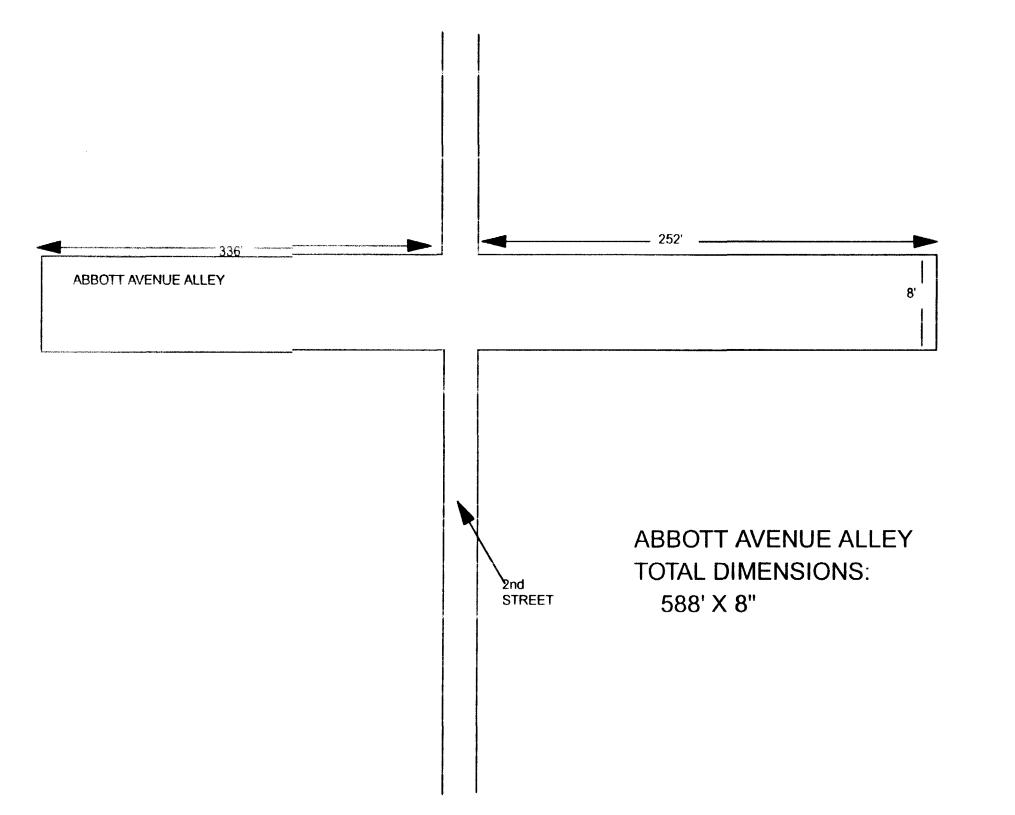
SITE NAME: ABBOTT ALLEY

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SA001	35.9	
SA002	24.6	
SA003	28.2	
SA004	27.9	
SA005	10	
SA006	11.2	
SA007	45.3	
SA008	63.2	
SA009	324	
SA010	<b>37.</b> 3	
SA011	49.7	
SA012	30.6	
SA013	<b>45</b> 90	
SA014	<b>262</b> 0	
SA015	<b>28</b> 0	
SA016	237	

## ECC RESULTS ABBOTT ALLEY

\$A001 35.9 \$ \$A002 24.6 \$ \$A003 28.2 \$ \$A004 27.9 \$ \$A005 11.2 \$ \$A006 11.2 \$ \$A007 45.3 \$ \$A008 63.2 \$ \$A009 324 \$ \$A009 324 \$ \$A010 37.3 \$ \$A011 49.7 \$ \$A011 49.7 \$ \$A012 30.6 \$ \$A013 4590 \$ \$A014 2620 \$ \$A014 2620 \$ \$A015 280 \$ \$A016 237 \$ \$A016 237 \$ \$A017 142 \$ \$A018 24.9 \$ \$A019 15.8 \$ \$A020 257 \$ \$A021 22 \$ \$A022 23.6 \$ \$A024 17.8 \$ \$A024 17.8 \$ \$A026 42.1 \$ \$A027 29.3 \$ \$A028 49 \$ \$A030 1750 \$ \$A031 144 \$ \$A032 85.5 \$ \$A033 1340 \$ \$A034 457 \$ \$A035 83.1 \$ \$A036 17000 \$ \$A038 49.9 \$ \$A039 1470 \$ \$A039 1470 \$ \$A040 16.9 \$ \$A040 16	SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
SA003       28.2         SA004       27.9         SA005       1/0         SA006       11.2         SA007       45.3         SA008       63.2         SA009       324         SA010       37.3         SA011       49.7         SA012       30.6         SA013       4590         SA014       2620         SA015       280         SA016       237         SA017       142         SA018       24.9         SA019       15.8         SA020       257         SA021       22         SA022       23.6         SA023       126         SA024       17.8         SA025       20.7         SA026       42.1         SA027       29.3         SA030       1750         SA031       144         SA032       185.5         SA033       1340         SA034       457         SA035       83.1         SA036       17000         SA037       1650         SA038       49.9	SA001	35.9		
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SA028     49       SA030     1750       SA031     144       SA032     85.5       SA033     1340       SA034     457       SA035     83.1       SA036     17000       SA037     1650       SA038     49.9       SA039     1470       SA040     16.9				
SA030     1750       SA031     144       SA032     85.5       SA033     1340       SA034     457       SA035     83.1       SA036     17000       SA037     1650       SA038     49.9       SA039     1470       SA040     16.9				
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SA033     1340       SA034     457       SA035     83.1       SA036     17000       SA037     1650       SA038     49.9       SA039     1470       SA040     16.9	SA032	85.5		
SA035     83.1       SA036     17000       SA037     1650       SA038     49.9       SA039     1470       SA040     16.9	SA033	1340		
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SA036     17000       SA037     1650       SA038     49.9       SA039     1470       SA040     16.9	SA035	83.1		
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ABBOTT ALLEY WAS CAPPED PER USACE DUE TO DEPTH REACHED



#### WEBER AVENUE ALLEY:

Action Date: May 20, 1993
Loadout: June 6, 1993
Restoration Begins: June 9, 1993
Restoration Completed: June 30, 1993

- Visual contamination was excavated yielding an estimated 547 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- The remaining excavation yielded an estimated 160 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- ► Due to the high level of contamination after reaching the USACE predetermined excavation depth of one foot, the excavation was covered with four inches of CA-6 stone and compacted to 95%. The alley was then capped with an eight inch layer of concrete.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - Komatsu 690 Trackhoe (Rental)
  - John Deere 550 Bulldozer (Rental).
  - John Deere 490 Frontloader (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna
    - Special Waste Disposal.
  - Metro East Sand
    - Backfill
    - Topsoil

- Bellefontaine Quarry
  - Stone
- L. Wolf Co.
  - Concrete
- Quantity Summaries:
  - See Figure F.1
- Verification Analytical:
  - See Figure F.2

SITE NAME WEBER ALLEY

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	CONCRETE
WEBER	547	160								171.7 TON	824.53 SQ YD

### PRE-CHARACTERIZATION SAMPLING RESULTS

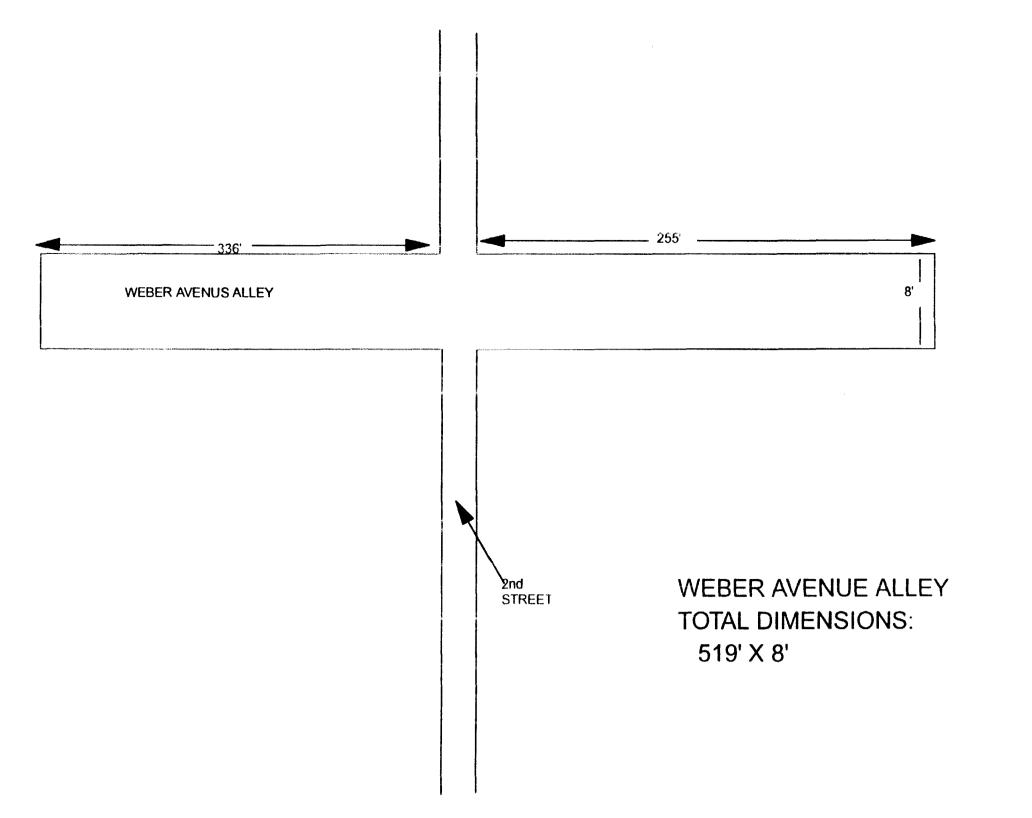
SITE NAME: WEBER ALLEY

CAMBLE	TOTAL LEAD	TOLDIEAD
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SW033	343	
SW034	59	
SW035	37	· · · · · · · · · · · · · · · · · · ·
SW036	1921	
SW037	173	
SW038	148	
SW039	8135	
SW040	214	
SW041	174	
SW042	154	
SW043	102	
SW044	52	
SW001	ND	
SW002	ND	
SW003	29	
SW004	ND	
SW005	41	
SW006	ND	The state of the second
SW007	52	
SW008	ND	Control of the Contro
SW009	39	
SW010	ND	
SW011	ND	
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# ECC RESULTS WEBER AVENUE

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
SW001	29.1		
SW002	15.6		
SW003	2.5		
SW004	31.2		
SW005	59.4		
SW006	5.7		
SW007	85.9		
SW008	49.6		
SW009	113		
SW010	15		
SW011	11.2		
SW012	29.3		
SW033	776		
SW034	161		
SW035	62.7		
SW036	3200		
SW037	325		
SW038	370		
SW039	7890		ANY COMMISSION IN CONTRACTOR AND ADDRESS OF THE PARTY OF
SW040	500		NAME OF THE PROPERTY OF THE PR
SW041	160		Marie Company of the
SW042	335		
SW043	139		
SW044	3690		
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DUE TO DEPTH REACHED IN EXCAVATION AND LABORATORY RESULTS ALL WAS CAPPED WITH 8" OF CONCRETE. THEREFORE CONFIRMATION RESULTS WERE NOT NECESSARY.





Action Date:June3, 1993Loadout:July 12, 1993Restoration Begins:July 6, 1993Restoration Completed:July 12, 1993

- Visual contamination was excavated yielding an estimated 701 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- ► The remaining excavation yielded an estimated 480 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- Excavation depth averaged 1 foot.
- ► There was no grass seed broadcast on this undeveloped lot per the direction of USACE.
- Equipment utilized during excavation:
  - Cat 215 Trackhoe (OHM).
  - Case 580 Backhoe (Rental).
  - Cat D-4 Bulldozer (Rental).
  - Komatsu 691 Frontloader (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna.
    - Special Waste Disposal
  - Metro East Sand
    - Backfill

- Topsoil
- Quantity Summaries:
  - \* See Figure G.1
- Verification Analytical:
  - See Figure G.2



Γ	SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	CONCRETE
Ì	208	701	480		1000 TON	100 TON					

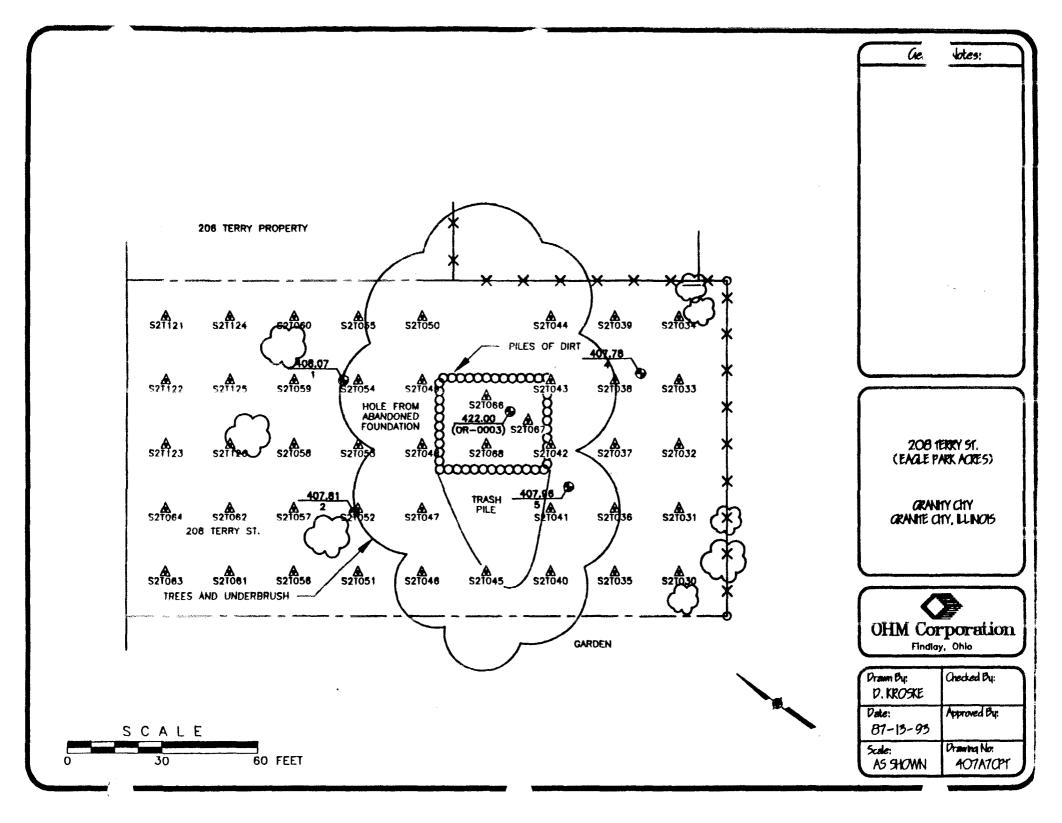
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: ERRY

NUMBER MG/KG MG/L S2T014 1030 1.65 S2T016 1650 0.8 S2T017 8.9 0.014 S2T025 112 BDL S2T026 140 0.22 S2T027 8.9 0.17 S2T028 23.7 BDL S2T029 75.2 BDL			
S2T014         1030         1.65           S2T016         1650         0.8           S2T017         8.9         0.014           S2T025         112         BDL           S2T026         140         0.22           S2T027         8.9         0.17           S2T028         23.7         BDL	SAMPLE	TOTAL LEAD	
S2T016         1650         0.8           S2T017         8.9         0.014           S2T025         112         BDL           S2T026         140         0.22           S2T027         8.9         0.17           S2T028         23.7         BDL			
S2T017         8.9         0.014           S2T025         112         BDL           S2T026         140         0.22           S2T027         8.9         0.17           S2T028         23.7         BDL			
S2T025         112         BDL           S2T026         140         0.22           S2T027         8.9         0.17           S2T028         23.7         BDL			
S2T026         140         0.22           S2T027         8.9         0.17           S2T028         23.7         BDL			
S2T027         8.9         0.17           S2T028         23.7         BDL			
S2T028 23.7 BDL			
S2T028 23.7 BDL S2T029 75.2 BDL			
S2T029 75.2 BDL		23.7	
	S2T029	75.2	BDL
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<b>SECTION NUMBER</b>	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S2T030	76.4	S2T067	*
S2T031	351	S2T068	
S2T033	74.1	S2T118	364
S2T034	477	S2T123	190
S2T075	203	S2T124	14.7
S2T076	87.4	S2T125	227
S2T037	ND	S2T127	10.6
S2T038	99.3	S2T128	14.7
S2T039	384		
S2T081	*		
S2T041	161		
S2T042	365		
S2T078	85.7		
S2T079	40.3		
S2T082	23.1		
S2T083	48.3		
S2T084	16.3		
S2T114	15.4		
S2T115	6		
S2T087	13.2		
S2T088	27.4		
S2T089	109		
S2T116	161		
S2T054	130		
S2T055	258		
S2T091	272		
S2T092	134		
S2T120	8.7		
S2T095	15.5		
S2T061	174		
S2T119	288		
S2T063	281		
S2T064	271		
S2T066			





Action Date:June 13, 1993Loadout:June 14, 1993Restoration Begins:June 15, 1993Restoration Completed:July 8, 1993

- Visual contamination was excavated yielding an estimated 18 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- No special waste was excavated.
- Rolloff boxes were used during loadout activities due to the presence of overhead power lines.
- Excavation depth averaged one foot
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Bobcat 753 Skid-steer loader (Rental).
  - Kubota KX41 Mini-excavator (Rental).
  - Water Truck (Rental).
- Subcontractors:
  - Peoria Disposal Company
    - Hazardous Waste Disposal
    - Rolloff Boxes and Transportation
  - Metro East Sand
    - Backfill
    - Topsoil
  - Munie Outdoor Construction Co
    - Sod Installation and Maintenance
- Quantity Summaries:

- See Figure H.1
- Verification Analytical:
  - See Figure H.2

SITE NAME COLGATE

SITE#	HÁZ CỦ YO	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	CONCRETE
3108	18						120 SQ YD		20 TON		

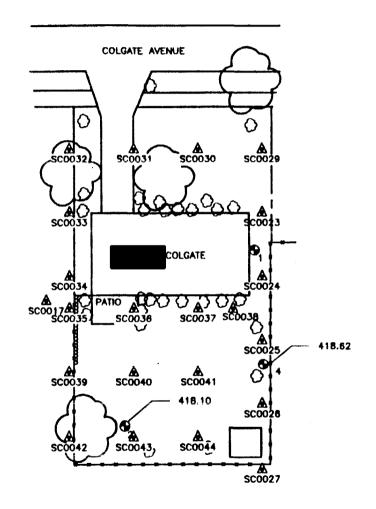
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: COLGATE

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SCO001	2052	
SCO002	90	
SCO003	1486	
SCO004	ND	
SCO005	436	
SCO006	ND	
SCO007	364	
SCO008	ND	
SCO009	60	
SCO010	ND	
SC0011	69	A William Company
SCO012	ND	
SVO013	ND	
SCO014	ND	
SCO015	ND	
SCO016	ND	
SC0017	17	
SCO018	1250	0.55
SCO019	<b>35</b> 5	0.037
SCO020	61.2	BDL
SCO021	29	BDL
SCO022	32.7	BDL



SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
SC002406	326		
SC002507	350		
SCO02608	172		
SCO02709	314		
SCO02810	384		
SCO02810 SCO030	100		
SC0031	64.9		
SCO032	155	militatina manaka manaka dikada mananana a manahini 1990 - 1994 mendukan kendulukan mendulukan menduluk	
ECOSS	€8.7	F	1
SC0034	55.7		
SCO035	68.8		
SCO036	71.2		
SC0037	56.6		
SC0038	29.5		<u> </u>
SCO039	37.5		
SCO040	37.5 37.2		
SC0041	76.6		
SC0041	40		
SC0043	33.1		
SC0044	40		
SC0045	183		
300043	103		
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SCALE

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Genk.... Notes:

SHOOL COLGATE

GRANITY CITY
GRANITE CITY, LLINOIS



Drawn By: D. KROSKE	Chacked By:
Date: 87-17-93	Approved Bu:
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Action Date:June 14, 1993Loadout:June 21, 1993Restoration Begins:June 21, 1993Restoration Completed:July 8, 1993

- Visual contamination was excavated yielding an estimated 258 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- No special waste was excavated.
- Excavation depth averaged 15 inches.
- After grass seed was broadcast, Munie Outdoor Construction Co. crews watered until grass was stable.
- During restoration activities, L. Wolfe Co. replaced the stone driveway with concrete as per the direction of USACE.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM)
  - John Deere 550 Bulldozer (Rentai)
  - Ingersol-Rand 7.5 Ton Double-drum Roller (Rental)
  - Water Truck (Rental)
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Metro East Sand
    - Backfill
    - Topsoil
  - Bellefontaine Quarry
    - Stone
  - · L. Wolfe Co.
    - Concrete

- Munie Outdoor Construction Co.
  - Grass Seed and Maintenance
- Quantity Summaries:
  - See Figure I.1
- Verification Analytical:
  - See Figure 1.2

KFILL SAND SEED/SOD ROCK TOP SOIL 3" STONE CONCRETE  16 SQ YD
---

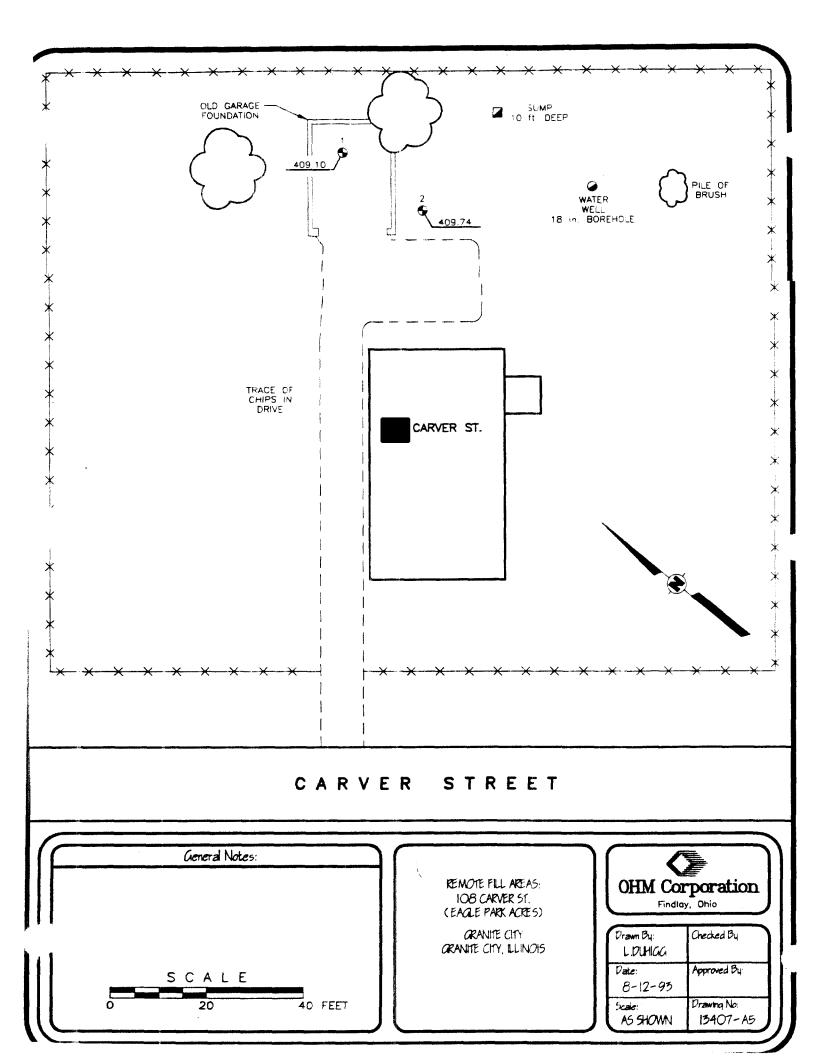
#### PRE-CHARACTERIZATION SAMPLING RESULTS

### SITE NAME CARVER

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SVA025	1550	1.6
SCA026	81.1	0.082
SCA027	9220	9
SCA028	33.4	BDL
SCA029	122	BDL
SCA030	2690	0.027

# ECC RESULTS CARVER

	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/K
SCA032	305		
SCA033	174		
SCA035	9.2		
SCA036	207		
SCA049	358		
SCA050	19.8		
SCA051	188		
SCA052	206		
SCA053	188	The state of the s	
SCA054	123		
SCA055	117		
SCA056	201		
SCA037	89.9		
SCA038	85.5		
SCA039	93.8		
SCA040	87.5		
SCA041	70.1	and the second s	
SCA042	230		
SCA043	63.5		
SCA044	70.1		
SCA045	61		
SCA046	116		
SCA047	65.8		
SCA048	68.8		
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 Visual contamination was excavated yielding an estimated 164 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.

July 8, 1993

No special waste was excavated.

Action Date:

**Restoration Completed:** 

Loadout:

- Due to the high level of contamination within the driveway area, after reaching the USACE predetermined excavation depth of one foot, the excavation was covered with four inches of CA-6 stone and compacted. The driveway was then capped with an eight inch layer of concrete.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- ► Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - Bobcat 753 (Rental).
  - Ingersoll-Rand 10-ton Smooth Drum Rolling Compactor.
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Bellefontaine Quarry
    - Stone
  - L. Wolf Co.
    - Concrete
  - Munie Outdoor Construction
    - Sod Installation and Maintenance

- Quantity Summaries:
  - See Figure J.1
- Verification Analytical:
  - See Figure J.2

### QUANTI1 1 SUMMARY

### SITE NAME CLEVALAND

SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
2260/2230	164	40		75	25 TON		60 SQ YD		

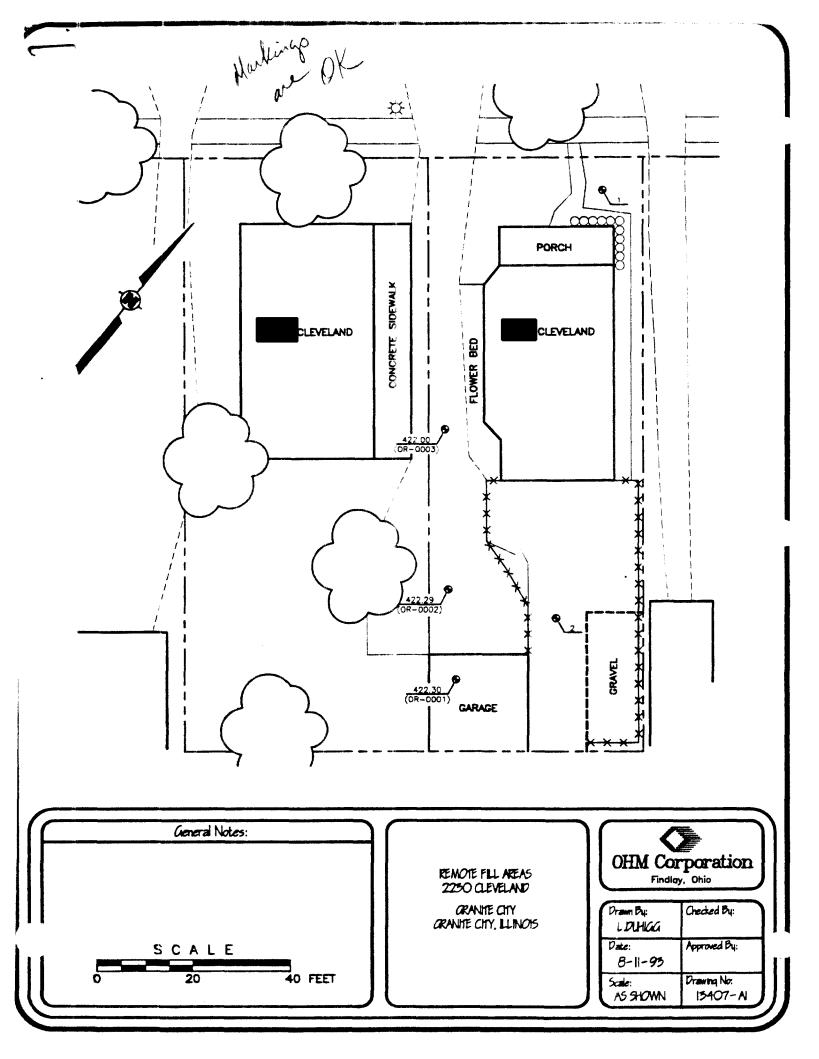
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: CLEVELAND

	T-A-1 1-1-1	
SAMPLE	TOTAL LEAD	
NUMBER	MG/KG	MG/L
SCL001	436	
SCL002	28	
SCL003	729	
SCL004	ND	
SCL005	445	
SCL006	47	
SCL007	19637	
SCL008	2913	
SCL009	1274	
SCL010	386	
SCL011	1130	
SCL012	1479	
SCL013	387	
SCL014	2305	
SCL015	1860	
SCL016	4438	to the delegration of the control of
SCL017	4960	
SCL018	465	
SCL019	314	
SCL020	396	
SCL021	168	The same and the s
SCL022	111	
SCL023	ND	
SCL024	146	
SCL025	ND	
SCL026	408	
SCL027	77	
SCL028	291	
SCL029	100	
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SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
SCL076	83.2		
SCL077	145		
SCL078	322		
SCL079	199		
SCL080	444		
SCI 083	23.1		
SCL082 SCL072	156		
301072	130	And the second of the second o	
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Action Date:June 22, 1993Loadout:July 9, 1993Restoration Begins:July 9, 1993Restoration Completed:July 20, 1993

- Visual contamination was excavated yielding an estimated 128 cubic yards of hazardous waste, which was shipped to Peoria Disposal in Peoria, IL for stabilization.
- The remaining excavation yielded an estimated 60 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- Excavation depth averaged 12 inches.
- ► After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- During the remediation phase, the gazebo, fence, front porch, sewer line, and water line were damaged. All these items were repaired or replaced during the restoration phase.
- During the restoration phase, L. Wolf Co. replaced the wooden front porch with a 4' X 8' concrete pad, as per USACE direction.
- Equipment utilized during excavation:
  - Case 580 Backhoe (Rental).
  - Bobcat 753 Skid-steer Loader (Rental)
  - Water Truck (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Peoria Disposal Company
    - Hazardous Waste Disposal
  - Laidlaw-Roxanna

- Special Waste Disposal.
- Metro East Sand
  - Backfill
  - Topsoil
- L. Wolf Co.
  - Concrete
- Munie Outdoor Construction Co.
  - Sod Installation and Maintenance
- Quantity Summaries:
- See Figure K.1
- Verification Analytical:
  - See Figure K.2

### SITE NAME DELMAR

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	CONCRETE
1628	128	60		175 TON		569 SQ YD				30 SQ YD

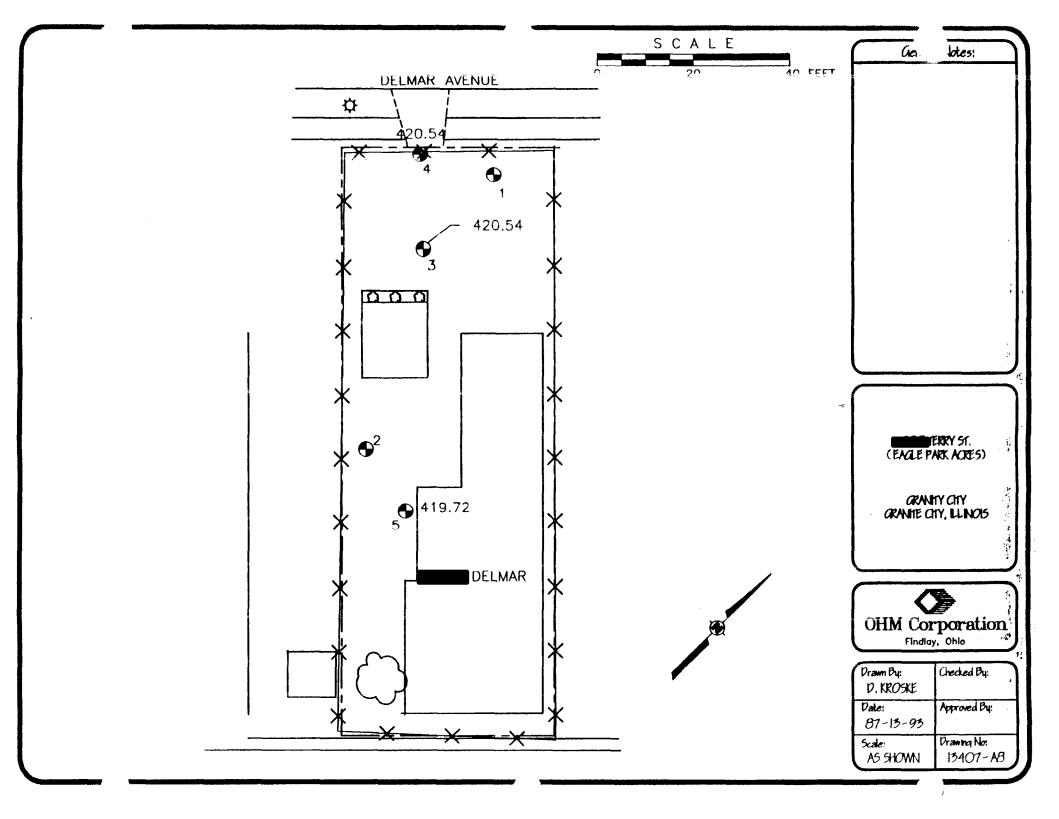
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: DELMAR

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
SDR001	584	
SDR002	80	-
SDR003	177	
		and the second s
SDR004	19	
SDR005	626	
SDR006	102	
SDR007	519	
SDR008	135	
SDR009	236	
SDR010	84	
SDR011	601	
SDR012	67	
SDR023	386	0.3
SDR024	149	0.14
SDR025	391	0.19
SDR026	830	6.9
SDR020	348	0.081
SURUZI	340	0.001
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SECTION	ON NUMBER	RESULTS MG/KG	SECTION	NUMBER	RESUL	TS MG/K
5	SDR047	31.7				
5	SDR048	59.3				
5	SDR049	258				
	SDR050	129				
	SDR051	115	<del></del>			
	DR052	202				
	SDR054	175				
	SDR055	238			M	
	SDR056	373				
	DR057	46.8				<del></del>
	SDR059	343	<del> </del>			
	SDR060	88.3	<del> </del>			
	SDR062	34.2				
	DINUOZ	34.2	·			
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Action Date: September 27, 1993
Loadout: October 7, 1993
Restoration Begins: October 7, 1993
Restoration Completed: October 18, 1993

 Visual contamination was excavated yielding an estimated 592 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN for stabilization.

No grass seed was broadcast or sod installed on this undeveloped site, as per direction of USACE.

- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 644 Front Loader (Rental).
  - John Deere 690 Track Excavator (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - Metro East Sand
    - Backfill
    - Sand
- Quantity Summaries:
  - See Figure L.1
- Verification Analytical:
  - See Figure L.2

### **QUANTITY SUMMARY**

SITE NAME TERRY

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
102	592			990 TON				

### PRE-CHARACTERIZATION SAMPLING RESULTS

### SITE NAME:

TOTAL LEAD	TCLP LEAD
MG/KG	MG/L
76.2	
118	
63	
67.9	
87.9	14
242	59.8
	- marininalization of the control of
	With the second
	MG/KG 76.2 118 63 67.9 87.9

### PRE-CHARACTERIZATION SAMPLING RESULTS

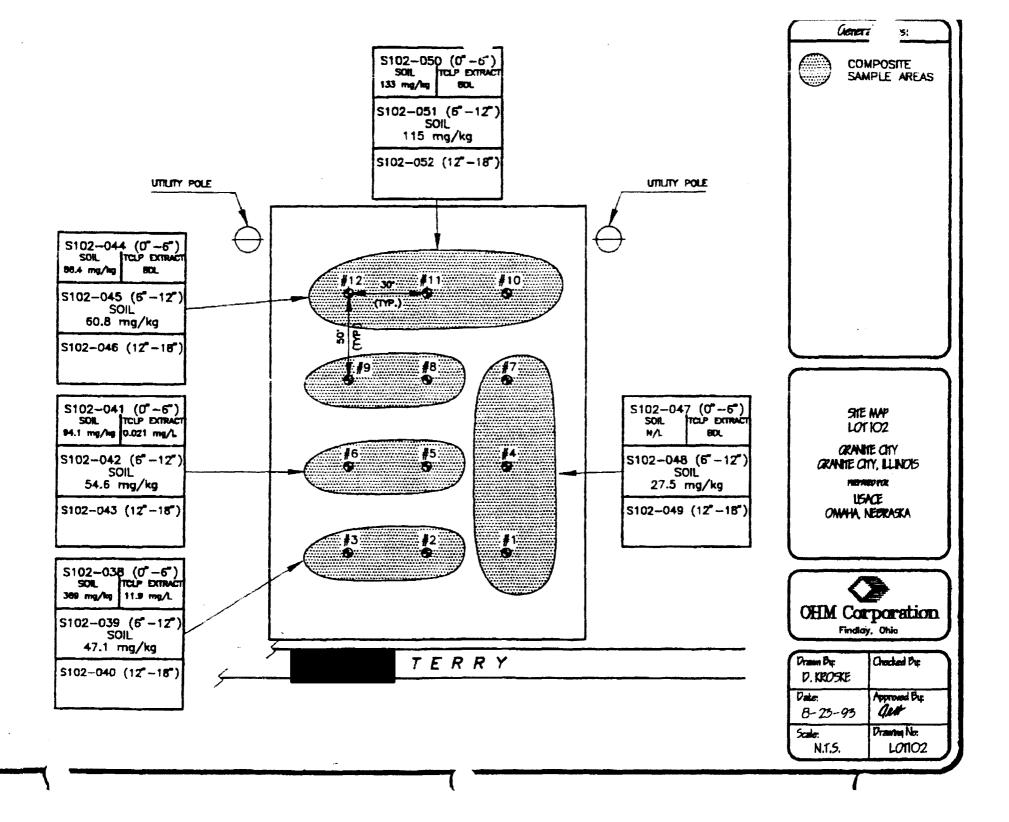
SITE NAME: TERRY

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S102038	369	11.9
S102-039	47.1	
S102-040	94.1	0.021
S102-041	54.6	
S102-043	88.4	BDL
S102-044	60.8	
S102-046	N\L	BDL
S102-047	27.5	
S102-049	133	BDL
S102-050	115	



<b>SECTION NUMBER</b>		SECTION NUMBER	
S102-106	27.9	S102-156	11.1
S102-017	112	S102-157	25
S102-108	174	S102-158	11.5
S102-109	128	S102-159	11.8
S102-110	52	S102-160	28.1
S102-111	50.6	S102-161	57.1
S102-112	25.2	S102-162	28.2
S102-113	14.4	S102-163	67
\$102-114	108	S102-164	117
S102-115	179	S102-165*	9.7
\$102-116	80	S102-166*	23.3
S102-117	19.3	S102-167*	20.4
S102-118	66.6		
S102-119	14.1		
S102-120	166		
S102-121	87.7		
S102-122	14.2	The second secon	
S102-123	40.6		
S102-124	85.8		
S102-125	47		
S102-126	180		
S102-127	189	(1)	
S102-128	8.8		
S102-129	77.6		
S102-130A	138		
S102-131	13.9		
S102-132	40.6		
S102-133	186		
S102-134	26.5		
S102-135	34.5		
S102-136A	148		
S102-137	36.7		
S102-138	142		
S102-139	176		
S102-140	18.6		
S102-141	31.4		
S102-142A	198		
S102-143	30.5		
S102-144	29.7		
S102-145*	105		
S102-146*	156	A STATE OF THE PROPERTY OF THE	
S102-147	30		
S102-148	16.6		
S102-149	35.4	A STATE OF THE STA	
S102-150	11.1		
S102-151	8		
S102-152	41.2	A Marie Control of the Control of th	
S102-153	60.6		
S102-154	21.9		
S102-155	28.8		
		<u> </u>	L

<sup>\*</sup>DENOTES DUPLICATE



#### **ALLEY #44**

Action Date: September 27, 1993
Loadout: October 8, 1993
Restoration Begins: October 10, 1993
Restoration Completed: October 30, 1993

- Visual contamination was excavated yielding an estimated 259 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN for stabilization.
- ► The remaining excavation yielded an estimated 203.5 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - · Cunningham Trucking Co.
    - Hauled Special Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - · Laidlaw-Bridgeton
    - Special Waste Disposal
  - L. Wolf Co.
    - Concrete
- Quantity Summaries:
  - See Figure M.1
- Verification Analytical:
  - See Figure M.2

SITE NAME

ALLEY 44

S	ITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
	44	259	203.5	411.45						

### PRE-CHARACTERIZATION SAMPLING RESULTS

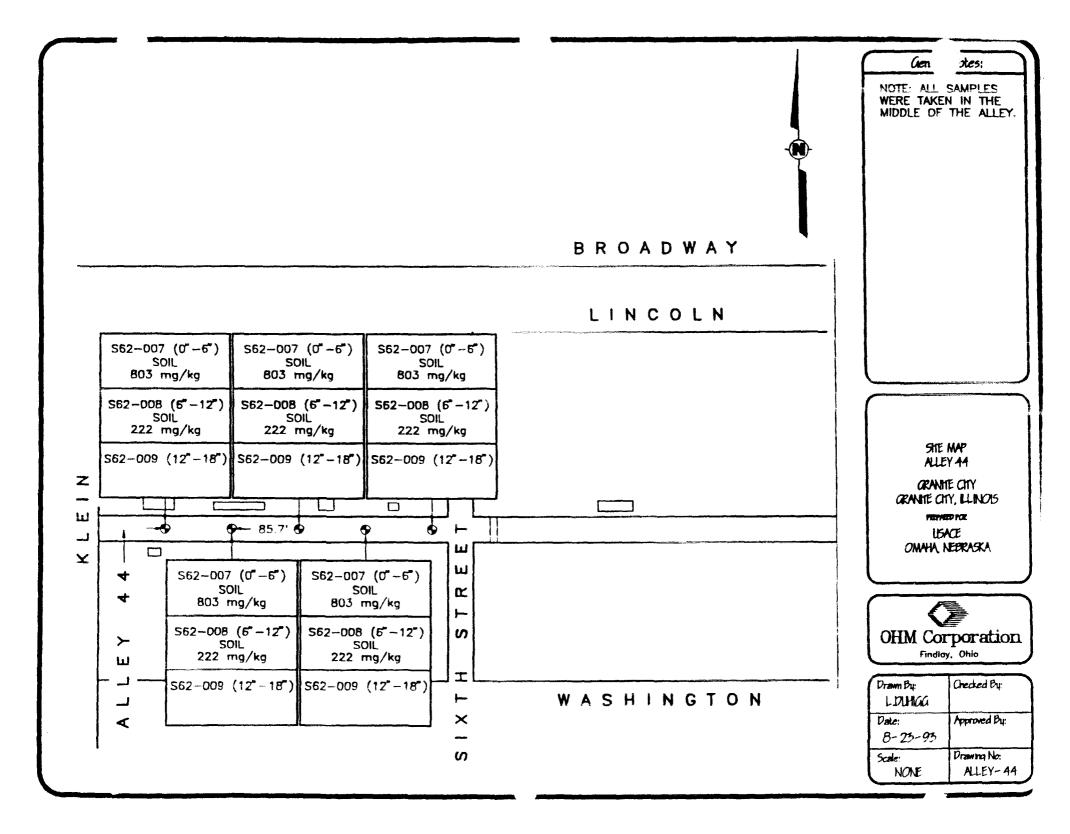
SITE NAME: ALLEY 44

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S044-100	1120	236
S044-101	778	14
S044-102	426	14
S044-103	474	38.5
S044-104	540	62.3
	The state of the s	

## ECC RESULTS ALLEY 44

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S044-105	159	S044-153A	437
S044-106	294	S044-153B	94.2
S044-107	296	S044-154D	20
S044-107A	49.5	S044-155A	20.1
S044-108	220	S044-156A	210
S044-109	80.9	S044-157B	11.3
S044-110A	28.8	S044-158	161
S044-111	204	S044-158A	61
S044-112	60.8	S044-159A	54.3
S044-114	57.8	S044-160A	11.9
S044-115A	8.8	S044-161A	174
S044-116	32.4	S044-162A	21.1
S044-117	39.6	S044-163A	5.6
S044-119A	194	S044-164	103
S044-120	65.3	S044-164A	53.7
S044-121	67.3	S044-165A	88.7
S044-122	12.8	S044-166	201
S044-123A	147	S044-166A	103
S044-124A	234	S044-167A	17.6
S044-125	121	S044168A	40.9
S044-127	168	S044-169A	6.4
S044-128	134	S044-172*	161
S044-129A	31.6	S044-173*	237
S044-130	166	S044-174*	177
S044-131	175	S044-180*	23.7
S044-132	290	S044-181*	50.4
S044-133	125	3044-101	30.4
S044-134B	10.9		
S044-135	188		
S044-136A	446	1	
S044-136C	45.5		
S044-136C S044-137A	351		
S044-137A S044-138	179		
S044-139A	333		
S044-139B			
S044-140A	201		
	64.7		
S044-141B	76.5		
S044-142D	52.9		
S044-143A	201		
S044-144A	390		
S044-144B	27		
A044-145	154		
A044-146B	113		
S044-147C	23.7		
S044148A	111		
S044-149C	226		
S044-150B	250		
S044-151	251		
S044-152A	373		
S044-152D	30.6		

<sup>\*</sup>DENOTES DUPLICATE SAMPLE





Action Date:September 30, 1993Loadout:October 14, 1993Restoration Begins:October 20, 1993Restoration Completed:January 28, 1993

- Visual contamination was excavated yielding an estimated 277.5 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN for stabilization.
- ► The remaining excavation yielded an estimated 18.5 cubic yards of special waste, which was shipped to Laidlaw in Bridgeton, MO for disposal.
- After grass seed was broadcast,,OHM Corp. crews watered until grass was stable.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 444 Front Loader (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - Cunningham Hauling
    - Hauled Special Waste
  - Laidlaw Waste Systems-Bridgeton
    - Special Waste Disposal
  - Metro East Sand
    - Backfill
    - Topsoil
- Quantity Summaries:
  - See Figure N.1

- Verification Analytical:
  - See Figure N.2

### **QUANTITY SUMMARY**

SITE NAME VATSON

	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
Γ	101	277.5	18.5			306 TON				

## PRE-CHARACTERIZATION SAMPLING RESULTS

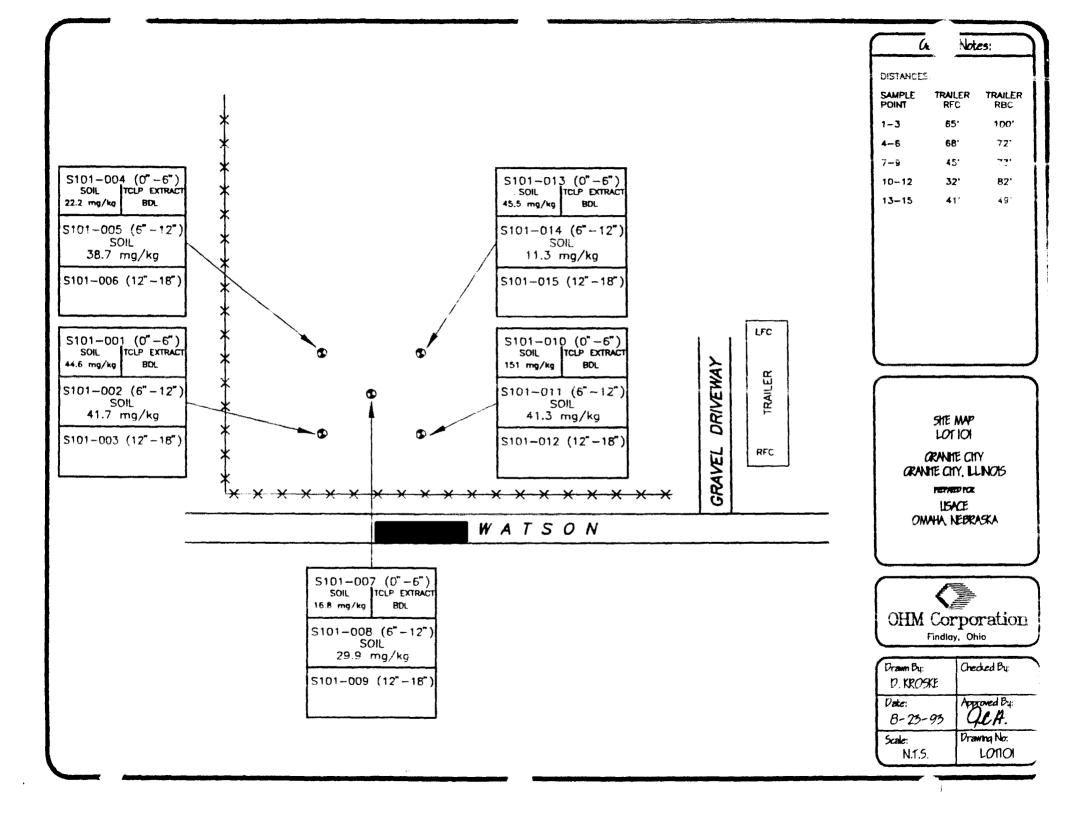
SITE NAME:

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S101-001	44.6	BDL
S101-002	41.7	
S101-004	22.2	BDL
S101-105	38.7	
S101-107	16.8	BDL
S101-108	29.9	
S101-010	45.5	BDL
S101-011	11.3	
S101-013	151	BDL
S101-014	41.3	

# ECC RESULTS

	RESULTS MG/KG	SECTION NUM	BER RESULTS MG/KG
S101-115	60.3		
S101-116	28.4		
S101-117	85.2		
S101-118	61.2		
S101-119	48.4		
S101-120	63.5	and the second s	
S101-121	101		
S101-122	82.4		
S101-123	106	And the second of the second o	
S101-124	106	ere <del>Manager e</del> t sign <del>ification de la compa</del> rt part à vir à virie de la compart d	
S101-125	73.2		
S101-126	75		
S101-127	151	Victoria de la compansión de la compansi	
S101-128	72.5	A Property Constitution of the Constitution of	
S101-129	76		
S101-130	57.1		
S101-131	139	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
S101-132	172	and the second s	
S101-132	51.9		
S101-134A	16.9		
S101-135A	15.2	Company and a second se	
S101-135A S101-136	145	The second secon	
S101-136 S101-137	15.3		
		-	
S101-138	34		
S101-139	137		
S101-140	12.2		
S101-141	87.8		
S101-142	6	Company of the Compan	
S101-143	29.2		
S101-175*	59.7		
S101-176*	19.3		
	Angeles de la companya del companya della companya		
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1		The second secon	
	The second secon		

<sup>\*</sup>DENOTES DUPLICATE SAMPLE



#### **ALLEY #45**

Action Date: October 1, 1993
Loadout: October 13, 1993
Restoration Begins: October 17, 1993
Restoration Completed: November 3, 1993

- Visual contamination was excavated yielding an estimated 499.5 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN for stabilization.
- The remaining excavation yielded an estimated 129.5 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).
- Subcontractors
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - Laidlaw-Bridgeton
    - Special Waste Disposal
  - · L. Wolf Co.
    - Rock/Tar Chip
- Quantity Summaries:
  - See Figure O.1

- Verification Analytical:
  - See Figure O.2

SITE NAME ALLEY 45

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BA	CKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
45	499.5	129.5	806.1						

### **PRE-CHARACTERIZATION SAMPLING RESULTS**

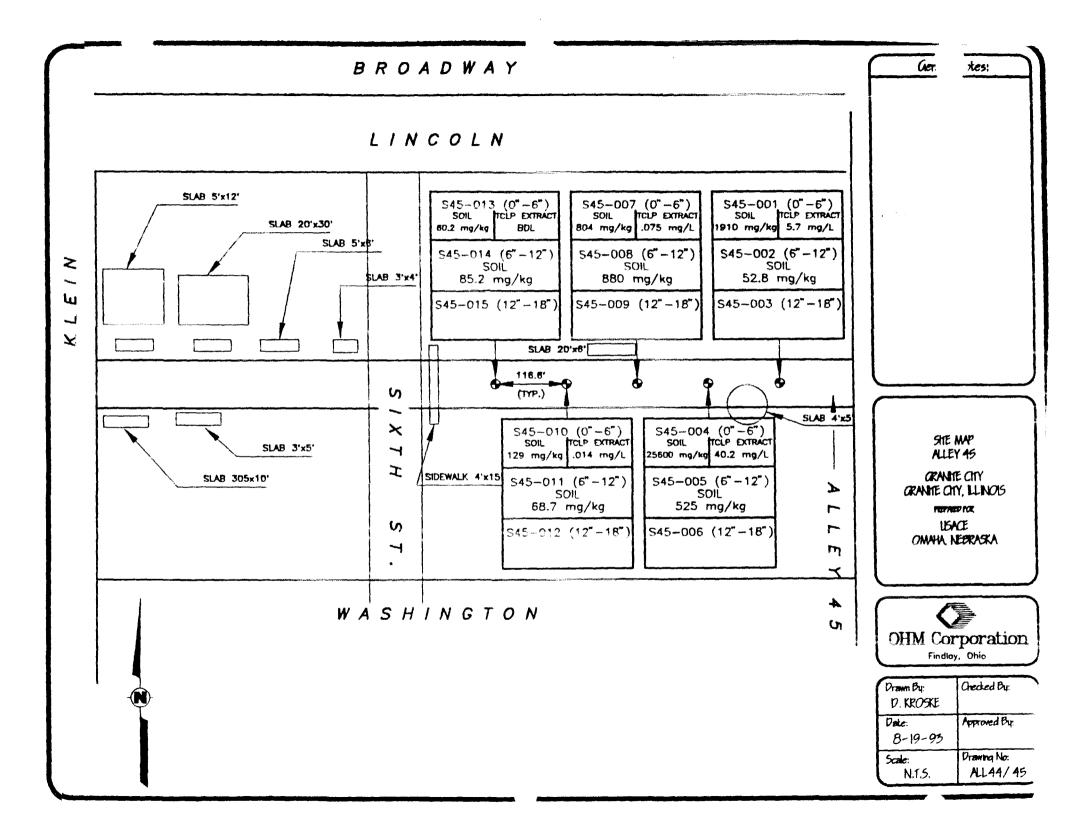
SITE NAME: Alley 45

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S45-001	1910	5.7
S45-002	52.8	
S45-004	25600	40.2
S45-005	525	
S45-007	804	0.075
S45-008	880	
S45-010	129	0.014
S45-011	68.7	
S45-013	60.2	BDL
S45-014	85.2	

## ECC RESULTS ALLEY 45

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S045-108	25.6	S045-158A	35.2
S045-109	11.8	S045-159B	28.8
S045-110	35.4	S045-160A	225
S045-111	16.9	S045-161B	296
S045-112	98.7	S045-162B	99.2
S045-113	22.6	S045-163B	21.8
S045-114	33.9	S045-164	123
S045-115	100	S045-165A	18.4
S045-116	6.4	S045-166A	114
S045-117A	6.9	S045-167	283
S045-118	14.7	S045-168	78.1
S045-119	30.7	S045-169	23.2
S045-120	136	S045-170	ND
S045-121	30.4	S045-171	10.5
S045-122	53.3	S045-172	117
S045-123	146	S045-173	27.3
S045-124	29.4	S045-174	11
S045-125	12.1	S045-175	187
S045-126A	25.4	S045-176	4.3
S045-127	151	S045-177	86.4
S045-128	13.5	S045-178	87.5
S045-129	90.8	S045-179	13.9
S045-030	149	S045-180	5.8
S045-131	89	S045-181	327
S045-132	400	S045-182	22.7
S045-133	119	S045-183	13.8
S045-134	ND	S045-184	321
S045-135	169	S045-185	21.7
S045-136	18.4	S045-186	28.4
S045-137	9.9	S045-187	3.7
S045-138A	112	S045-188	3.1
S045-139	13.8	S045-200*	100
S045-140	163	S045-201*	4.4
S045-141	12.8	S045-202*	41.8
S045-142	37.4	S045-204*	56.1
S045-143	9.1	S045-205*	12.7
S045-144	126	S045-206*	328
S045-145	23.8	S045-208*	342
S045-146	9.7		V 12
S045-147	63		
S045-148	25		
S045-149	11.2		
S045-150	108		
S045-151A	128	er, salvingalisele kelese <del>lla pinaga</del> n d <b>an sal</b> vinga en er en	
S045-151A	238		
S045-153A	86.7	(0.4)	
S045-154A	38.2		
S045-155A	<u> </u>	- American experience program of a series in a series and a series of a series of the	
S045-155A S045-156	112		
S045-156 S045-157A			
3043-137A	414		

<sup>\*</sup>DENOTES DUPLICATE SAMPLE





Action Date: October 11, 1993

Loadout: November 16, 1993

Restoration Begins: October 22, 1993

Restoration Completed: December 16, 1993

- Visual contamination was excavated yielding an estimated 166.5 cubic yards of hazardous waste, which was shipped to Envirite for stabilization.
- The remaining excavation yielded an estimated 203.5 cubic yards of special waste, which was shipped to Laidlaw, Roxanna for disposal.
- During the remediation phase, a section of siding on the house and part of the blacktop driveway were damaged. Both items were repaired during the restoration phase.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - Kubota KX41 Mini-Excavator (Rental).
  - John Deere 444 Front Loader (Rental).
  - Case 1840 Skid-Steer Loader (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Envirite
    - Hazardous Waste Disposal
  - Cunningham Haulers
    - Hauled Special Waste
  - Laidlaw-Roxana
    - Special Waste Disposal
  - Metro East Sand
    - Backfill
  - Munie Outdoor Construction Co
    - Topsoil
    - Sod

- Quantity Summaries:
  - See Figure P1
- Verification Analytical:
  - See Figure P2

### **QUANTITY SUMMARY**

SITE NAME

CARVER

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
101/013	166.5	203.5		236 TON		1903 SQ YD		

### PRE-CHARACTERIZATION SAMPLING RESULTS

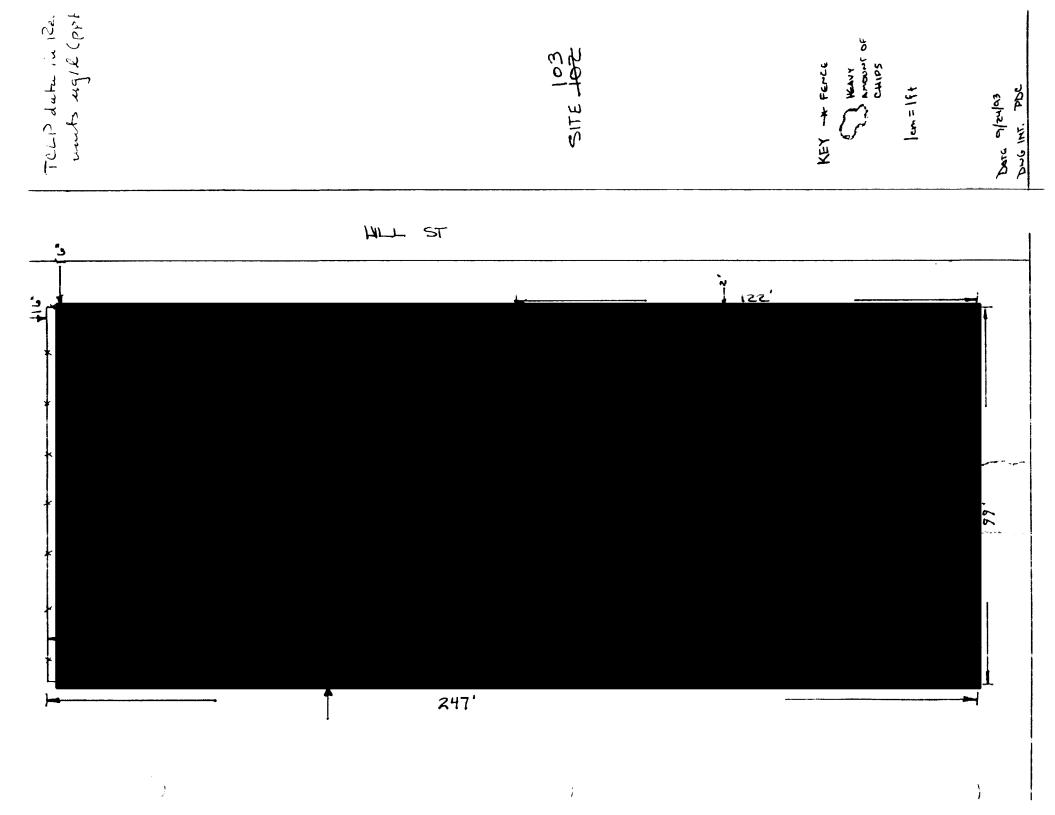
SITE NAME: CARVER

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S103-100	<b>25</b> 9	162
S103-104	141	249
\$103-108	<b>15</b> 3	<b>55.</b> 5
S103-112	<b>129</b> 0	<b>208</b> 0
\$103-116	535	134
S103-117	3300	<b>290</b> 0
S103-118	<b>169</b> 0	<b>181</b> 0
\$103-119	224	<b>110</b> 0
\$103-120	314	14
S103-121	212	120
S103-122	27500	20900
S103-123	<b>2</b> 58	71.4

## ECC RESULTS CARVER

\$103A-016	SECTION NUMBER		SECTION NUMBER	RESULTS MG/KG
\$103A-018				
\$130A-019		126		
\$103A-020	S103A-018			
\$103A-021		49.9		
\$103A-022	S103A-020			
\$103A-023 297 \$103A-024 190 \$103A-025B 21.1 \$103A-026 62 \$103-200° 45.4 \$103A-201° 187 \$103B-013A 26.2 \$103B-014 246 \$103B-014 246 \$103B-015 269 \$103B-016A 27.8 \$103B-016A 27.8 \$103B-018 96.3 \$103B-019A 135 \$103B-019A 135 \$103B-020A 41.8 \$103B-020 12.5 \$103B-020 12.5 \$103B-020 12.5 \$103B-021 12.5 \$103B-020 142 \$103C-016 281 \$103C-017 111 \$110\$ \$103C-018 165 \$103C-019 142 \$103C-02B 59.7 \$103C-02B 59.7 \$103C-025 199 \$103C-026 56.5 \$103C-027 11.8 \$103C-028 28.5 \$103C-028 28.5 \$103C-028 28.5 \$103C-030 175 \$103C-030 137 \$103C-030 139 \$103C-030 139 \$103C-030 149 \$103C-030 149 \$103C-030 149 \$103C-030 197.2 \$103C-030 199 \$103C-030 197.2 \$103C-030 197.2 \$103C-030B 14.5	S103A-021			The state of the s
\$103A-024		137		
\$103A-025B	S103A-023	297		The second secon
\$103A-026	S103A-024	190		
\$103-200*	S103A-025B	21.1	The second secon	
\$103A-201* \$103B-013A \$26.2 \$103B-014 \$246 \$103B-015 \$269 \$103B-016A \$27.8 \$103B-016A \$27.8 \$103B-019A \$23.3 \$103B-019A \$135 \$103B-020A \$41.8 \$103B-020A \$41.8 \$103B-021 \$12.5 \$103B-022 \$298 \$103C-016 \$281 \$103C-017 \$111 \$113 \$103C-018 \$165 \$103C-019 \$142 \$5103C-021 \$83.4 \$5103C-021 \$83.4 \$5103C-021 \$83.4 \$5103C-022 \$96.1 \$103C-023 \$96.1 \$103C-023 \$96.1 \$103C-028 \$5103C-025 \$199 \$103C-025 \$103C-026 \$56.5 \$103C-027 \$11.8 \$103C-028 \$28.5 \$103C-029 \$10.3 \$103C-030B \$175 \$103C-030A \$137 \$103C-034 \$139 \$103C-035 \$103C-036 \$103C-037 \$103C-037 \$103C-037 \$103C-038B \$44.5 \$103C-038B \$44.5 \$103C-0340 \$99 \$103C-038B \$44.5 \$5103C-0340 \$99 \$5103C-0340 \$99 \$5103C-0340 \$99	S103A-026	62		
\$103B-013A		45.4		The second secon
\$103B-013A	S103A-201*	187		
\$103B-015 269 \$103B-016A 27.8 \$103B-17A 23.3 \$103B-018 96.3 \$103B-019A 135 \$103B-020A 41.8 \$103B-020A 12.5 \$103B-022 298 \$103C-016 281 \$103C-017 111 \$103C-018 165 \$103C-019 142 \$103C-020 96 \$103C-021 83.4 \$103C-021 83.4 \$103C-021 83.4 \$103C-022 198 \$103C-021 83.4 \$103C-028 59.7 \$103C-028 59.7 \$103C-028 59.7 \$103C-028 59.7 \$103C-029 10.3 \$103C-026 56.5 \$103C-027 11.8 \$103C-029 10.3 \$103C-029 10.3 \$103C-029 10.3 \$103C-030A 61.7 \$103C-033A 61.7 \$103C-035 106 \$103C-036 491 \$103C-038B 44.5 \$103C-039A 99 \$103C-040A 76.2		26.2		
\$103B-015 269 \$103B-016A 27.8 \$103B-17A 23.3 \$103B-018 96.3 \$103B-019A 135 \$103B-020A 41.8 \$103B-020A 12.5 \$103B-022 298 \$103C-016 281 \$103C-017 111 \$103C-018 165 \$103C-019 142 \$103C-020 96 \$103C-021 83.4 \$103C-021 83.4 \$103C-021 83.4 \$103C-022 198 \$103C-021 83.4 \$103C-028 59.7 \$103C-028 59.7 \$103C-028 59.7 \$103C-028 59.7 \$103C-029 10.3 \$103C-026 56.5 \$103C-027 11.8 \$103C-029 10.3 \$103C-029 10.3 \$103C-029 10.3 \$103C-030A 61.7 \$103C-033A 61.7 \$103C-035 106 \$103C-036 491 \$103C-038B 44.5 \$103C-039A 99 \$103C-040A 76.2	S103B-014	246		
\$103B-017A       23.3         \$103B-018       96.3         \$103B-019A       135         \$103B-020A       41.8         \$103B-021       12.5         \$103B-022       298         \$103C-016       281         \$103C-017       111         \$103C-018       165         \$103C-019       142         \$103C-021       83.4         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103C-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038B       44.5         \$103C-040A       76.2	S103B-015	269		
\$103B-018       96.3         \$103B-019A       135         \$103B-020A       41.8         \$103B-021       12.5         \$103B-022       298         \$103C-016       281         \$103C-017       111         \$103C-018       165         \$103C-019       142         \$103C-020       96         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103C-023       96.1         \$103C-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-039A       99         \$103C-040A       76.2	S103B-016A	27.8		The second secon
\$103B-019A	S103B-17A			
\$103B-020A       41.8         \$103B-021       12.5         \$103B-022       298         \$103C-016       281         \$103C-017       111         \$103C-018       165         \$103C-019       142         \$103C-020       96         \$103C-021       83.4         \$103C-02B       59.7         \$103C-02B       59.7         \$103C-023       96.1         \$103C-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-030       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038       44.5         \$103C-039A       99         \$103C-040A       76.2	S103B-018	96.3		
\$103B-021       12.5         \$103B-022       298         \$103C-016       281         \$103C-017       111         \$103C-018       165         \$103C-019       142         \$103-020       96         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038B       44.5         \$103C-040A       76.2	S103B-019A	135		
\$103B-022       298         \$103C-016       281         \$103C-017       111         \$103C-018       165         \$103C-019       142         \$103-020       96         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038B       44.5         \$103C-039A       99         \$103C-040A       76.2	S103B-020A	41.8		:
S103C-016       281         S103C-017       111         S103C-018       165         S103C-019       142         S103-020       96         S103C-021       83.4         S103C-022B       59.7         S103C-022B       59.7         S103C-023       96.1         S103B-024       68.4         S103C-025       199         S103C-026       56.5         S103C-027       11.8         S103C-028       28.5         S103C-029       10.3         S103C-030B       175         S103C-031       137         S103C-034       139         S103C-035       106         S103C-036       491         S103C-038B       44.5         S103C-039A       99         S103C-040A       76.2	S103B-021	12.5	7 100	Control Contro
\$103C-017       111         \$103C-018       165         \$103C-019       142         \$103-020       96         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-03A       61.7         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-039A       99         \$103C-040A       76.2	S103B-022	298		
\$103C-018       165         \$103C-019       142         \$103-020       96         \$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038B       44.5         \$103C-039A       99         \$103C-040A       76.2	S103C-016	281	The second secon	(the second of the second of t
S103C-019       142         S103-020       96         S103C-021       83.4         S103C-022B       59.7         S103C-023       96.1         S103B-024       68.4         S103C-025       199         S103C-026       56.5         S103C-027       11.8         S103C-028       28.5         S103C-029       10.3         S103C-030B       175         S103C-031       137         S103C-034       139         S103C-035       106         S103C-036       491         S103C-038B       44.5         S103C-039A       99         S103C-040A       76.2	S103C-017	111		
\$103-020       96         \$103C-021       83.4         \$103C-023       59.7         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-038B       44.5         \$103C-040A       76.2	S103C-018	165		FOR THE TRANSPORT OF THE PARTY
\$103C-021       83.4         \$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-039A       99         \$103C-040A       76.2	S103C-019	142		
\$103C-022B       59.7         \$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-03A       61.7         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-040A       76.2	S103-020	96		
\$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-03A       61.7         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-040A       76.2	S103C-021	83.4		
\$103C-023       96.1         \$103B-024       68.4         \$103C-025       199         \$103C-026       56.5         \$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-03A       61.7         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-040A       76.2	S103C-022B	59.7		
\$103C-025     199       \$103C-026     56.5       \$103C-027     11.8       \$103C-028     28.5       \$103C-029     10.3       \$103C-030B     175       \$103C-031     137       \$103C-034     61.7       \$103C-034     139       \$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2	S103C-023	96.1		
\$103C-026     56.5       \$103C-027     11.8       \$103C-028     28.5       \$103C-029     10.3       \$103C-030B     175       \$103C-031     137       \$103C-033A     61.7       \$103C-034     139       \$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2	S103B-024	68.4		And the second control of the second control
\$103C-027       11.8         \$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-033A       61.7         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-040A       76.2	S103C-025	199		
\$103C-028       28.5         \$103C-029       10.3         \$103C-030B       175         \$103C-031       137         \$103C-033A       61.7         \$103C-034       139         \$103C-035       106         \$103C-036       491         \$103C-037       97.2         \$103C-038B       44.5         \$103C-040A       76.2	S103C-026	56.5		<del></del>
S103C-029     10.3       S103C-030B     175       S103C-031     137       S103C-033A     61.7       S103C-034     139       S103C-035     106       S103C-036     491       S103C-037     97.2       S103C-038B     44.5       S103C-039A     99       S103C-040A     76.2	S103C-027	11.8		
S103C-029     10.3       S103C-030B     175       S103C-031     137       S103C-033A     61.7       S103C-034     139       S103C-035     106       S103C-036     491       S103C-037     97.2       S103C-038B     44.5       S103C-039A     99       S103C-040A     76.2	S103C-028	28.5	and the first of t	
\$103C-031     137       \$103C-033A     61.7       \$103C-034     139       \$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2		10.3		
S103C-033A     61.7       S103C-034     139       S103C-035     106       S103C-036     491       S103C-037     97.2       S103C-038B     44.5       S103C-039A     99       S103C-040A     76.2	S103C-030B	175		
\$103C-034     139       \$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2	S103C-031	137		
\$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2		61.7		
\$103C-035     106       \$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2	S103C-034	139		
\$103C-036     491       \$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2				
\$103C-037     97.2       \$103C-038B     44.5       \$103C-039A     99       \$103C-040A     76.2				
S103C-038B     44.5       S103C-039A     99       S103C-040A     76.2			ann r <del>aganism</del> a it mygg <del>agadda gagana</del> gagaran — r <del>adioletica</del> galar <del>alain da</del> galar galar	
S103C-039A 99 S103C-040A 76.2				
S103C-040A 76.2				
S103C-200* 88.8	S103C-200*	88.8		
		The second secon		

<sup>\*</sup>DENOTES DUPLICATE SAMPLE



#### Alley #27

Action Date:October 14, 1993Loadout:October 27, 1993Restoration Begins:October 28, 1993Restoration Completed:December 17, 1993

- Visual contamination was excavated yielding an estimated 481 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN, and Envirite for stabilization.
- ► The remaining excavation yielded an estimated 222 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
- Fort Transfer
  - Hauled Hazardous Waste
- Cunningham Trucking Co.
  - Hauled Special Waste
- Heritage Environmental
  - Hazardous Waste Disposal
- Envirite
  - Hazardous Waste Disposal
- Laidlaw-Bridgeton
  - Special Waste Disposal
- L Wolf Co.
  - Rock
  - Tar Chip

- Quantity Summaries:
  - See Figure Q.1
- Verification Analytical:
  - See Figure Q.2

SITE NAME ALLEY 27

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
27	481	222	640.23						

### PRE-CHARACTERIZATION SAMPLING RESULTS

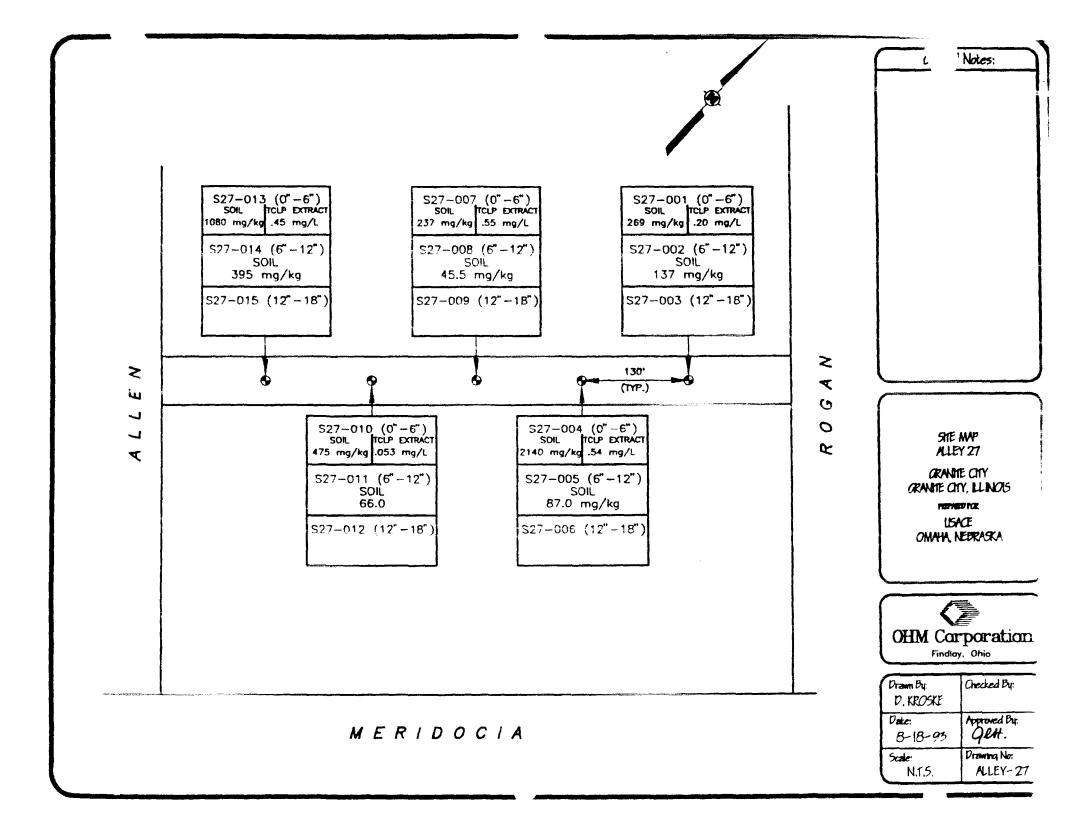
SITE NAME: ALLEY 27

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S027-100	243	592
\$027-101	10100	8340
S027-102	619	58.3
S027-103	574	22.4
S027-104	414	14

## ECC RESULTS ALLEY 27

	RESULTS MG/KG	SECTION NUMBER	<del></del>
S027-108	66.9	S027-168A	19.5
S027-109	103	S027-169A	160
S027-110	46	S027-170	167
S027-111	90	S027-170A	23.8
S027-112	261	S027-171A	30.8
S027-113	180	S027-172A	122
S027-114	32.5	S027-173A	127
S027-115	95.4	S027-174A	22.6
S027-116	12.4	S027-175A	26.7
S027-117	104	S027-176	145
S027-118	112	S027-176A	57.6
S027-119	34.1	S027-177A	22.4
S027-120	55.8	S027-178A	35
S027-121	76.2	S027-179A	200
S027-122B	27.3	S027-180A	9.7
S027-123B	27.1	S027-181A	33.7
S027-124A	31	S027-182A	39.4
S027-125A	32.8	S027-183A	11.5
S027-126A	244	S027-184A	26.8
S027-127	28.9	S027-185C	130
S027-128A	102	S027-186A	20.7
S027-129A	77.7	S027-187	83.8
S027-130	182	S027-187A	11.8
S027-131	284	S027-188A	30.3
S027-131	13.5	S027-189B	124
S027-132A	17.4	S027-189B	12.2
S027-133A	64.6	S027-190A S027-191A	71.8
S027-135A	13.4	S027-191A	15.6
	<u></u>		<del></del>
S027-136	211	S027-193	48
S027-137A	48	S027-193A	29.1
S027-138A	22.1	S027-194	161
S027-139	110	S027-194	114
S027-140A	110	S027-195	145
S027-141	80.8	S027-195A	23.5
S027-142A	19.3	S027-196	39.4
S027-143A	157	S027-196A	19.9
S027-144	89.2	S027-197A	68.2
S027-145A	18.2	S027-198	61.3
S027-146	141	S027-198A	36.4
S027-147	71.2	S027-199	94.9
S027-148	57.7	S027-199A	21.8
S027-149	90.9	S027-300A	90.8
S027-150	32.1	S027-301	154
S027-151	39.1	S027-301A	5.4
S027-152	131	S027-302A	144
S027-153A	15.2	S027-303	63.3
S027-154A	73	S027-303A	108
S027155A	15.5	S027-202*	107
S027-156	70.5	S027-206*	172
S027-156A	18.2	S027-207*	17.3
S027-157A	39.5	S027-214*	19.7
S027-158A	98.5	S027-215°	85.4
S027-159A	93	S027-216*	21.1
S027-161A	44.4	S027-217*	23.5
S027-162A	158	S027-218*	46.7
S027-163A	30.7	S027-219*	35.7
S027-164A	51.7	S027-220*	10.8
S027-165A	22.7	S027-221*	52.4
S027-166A	30.7		J
S027-167A	47.9		
*DENOTES DUPLICATE			

<sup>\*</sup>DENOTES DUPLICATE SAMPLE



#### **ALLEY #28**

Action Date: October 14, 1993
Loadout: October 25, 1993
Restoration Begins: October 25, 1993
Restoration Completed: December 17, 1993

- Visual contamination was excavated yielding an estimated 370 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN, and Envirite for stabilization.
- ► The remaining excavation yielded an estimated 18 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rentai).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Fort Transfer
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - Envirite
    - Hazardous Waste Disposal
  - Laidlaw-Bridgeton
    - Special Waste Disposal
  - · L. Wolf Co.
    - Rock
    - Tar Chip

- Quantity Summaries:
  - See Figure R.1
- Verification Analytical:
  - See Figure R.2

SITE NAME ALLEY 28

ï	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BAC	CKFILL SAND	SEED/SOD	ROCK	TOP SOIL
	28	370	18.5	704.08					

### PRE-CHARACTERIZATION SAMPLING RESULTS

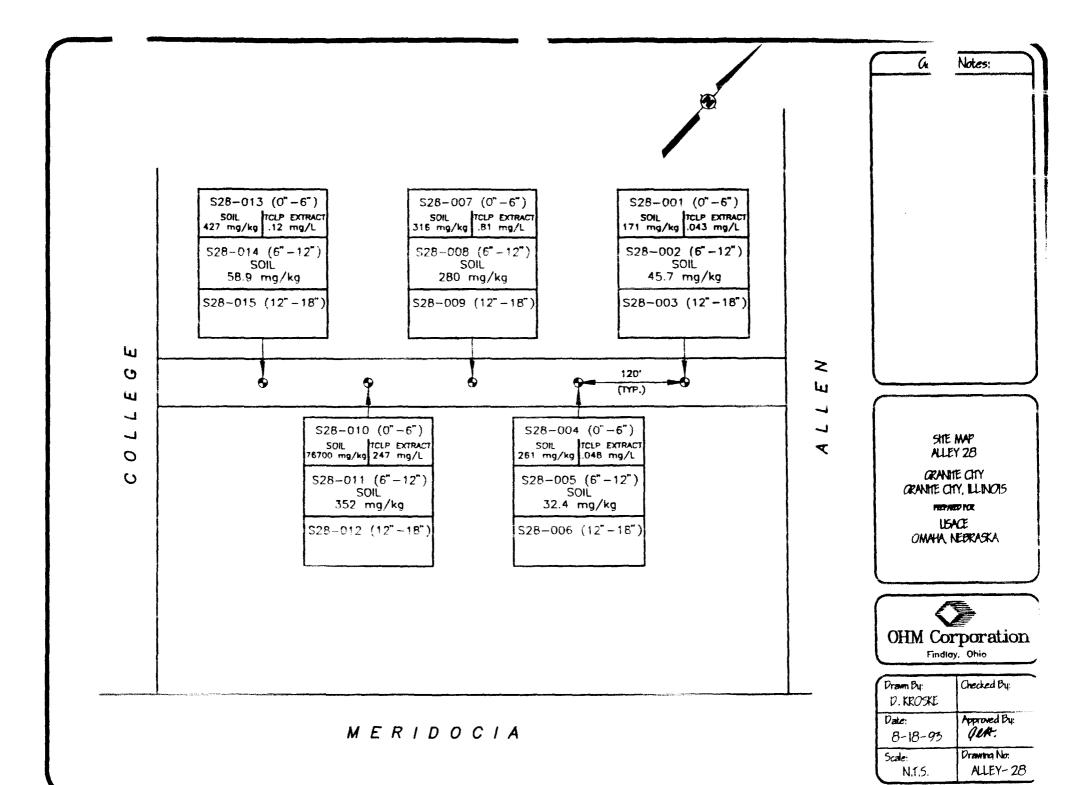
SITE NAME: ALLEY 28

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S028-100	83.4	64.2
S028-101	398	46.7
S028-102	2530	610
S028-103	2310	994
S028-104	601	57.5

## ECC RESULTS ALLEY 28

SECTION NUMBER		SECTION NUMBER	RESULTS MG/KG
S028-105A	25	S028-156A	19.5
S028-106	188	S028-157	60.1
S028-107	83.9	S028-158A	72.7
S028-108	16.4	S028-159	187
S028-109	231	S028-160A	89.3
S028-110A	55.7	S028-161A	22.1
S028-111	98.5	S028-162	133
S028-112	206	S028-163	185
S028-113A	129	S028-164	270
S028-114	277	S028-165	157
S028-115A	199	S028-166A	22.1
S028-116	91	S028-167A	22.8
S028-117	254	S028-168B	58.3
S028-118A	45.5	S028-169A	34.5
S028-119B	151	S028-170A	175
S028-120B	44.3	S028-171	267
S028-121	96.4	S028-172A	71.6
S028-122	440	S028-173A	27.9
S028-123	107	S028-174	182
S028-124A	210	S028-175A	26.9
S028-125A	129	S028-176	293
S028-126A	189	S028-177A	16.3
S028-127	202	S028-178	217
S028-128A	162	S028-179A	164
S028-129A	133	S028-180	23.4
S028-130	229	S028-181	181
S028-131A	48.2	\$028-182	207
S028-132A	105	S028-183	100
S028-133A	102	S028-184	231
S028-134A	249	S028-185	113
S028-135A	184	S028-186	186
S028-136	21.3	S028-187	50.2
S028-137C	28.2	S028-188A	222
S028-138A	92.9	S028-189A	14.1
S028-139A	202	S028-190	123
S028-140A	77.8	S028-191A	8.8
S028-141A	157	S028-192	76.6
S028-142B	283	S028-200*	102
S028-143A	79.4	S028-201*	235
S028-144A	23.1	S028-202*	182
S028-145A	286	S028-205*	66.9
S028-146B	10.3	S028-208*	206
S028-147A	133	S028-209*	176
S028-148	174	S028-210*	32.4
S028-149A	50.4	S028-211*	20.5
S028-150A	15.2	S028-212*	15.4
S028-151	263	S028-214*	42.4
S028-153	251		
S028-154	236	to common participation of the state of the	
S028-155A	10		

<sup>\*</sup>DENOTES DUPLICATE



### CARVER STREET

Action Date:October 18, 1993Loadout:November 2, 1993Restoration Begins:November 18, 1993Restoration Completed:December 6, 1993

- Visual contamination was excavated yielding an estimated 108 cubic yards of hazardous waste, which was shipped to Envirite for stabilization.
- No special waste was excavated.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- During excavation activities, an electrical line running from the house to the garage was severed. This was repaired the same day.
- Equipment utilized during excavation:
  - Kubota KX41 Mini-Excavator (Rental).
  - Case 1840 Skid-Steer Loader (Rental).
- Subcontractors:
  - Envirite Transportation
    - Hauled Hazardous Waste
  - Envirite
    - Hazardous Waste Disposal
  - Metro East Sand
    - Backfill
  - Munie Outdoor Construction Co.
    - Sod Installation
- Quantity Summaries:
  - See Figure S.1
- Verification Analytical:
  - See Figure S.2

SITE NAME CARVER

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
125	108			48.6	72 TONS		315 SQ YD		41

### PRE-CHARACTERIZATION SAMPLING RESULTS

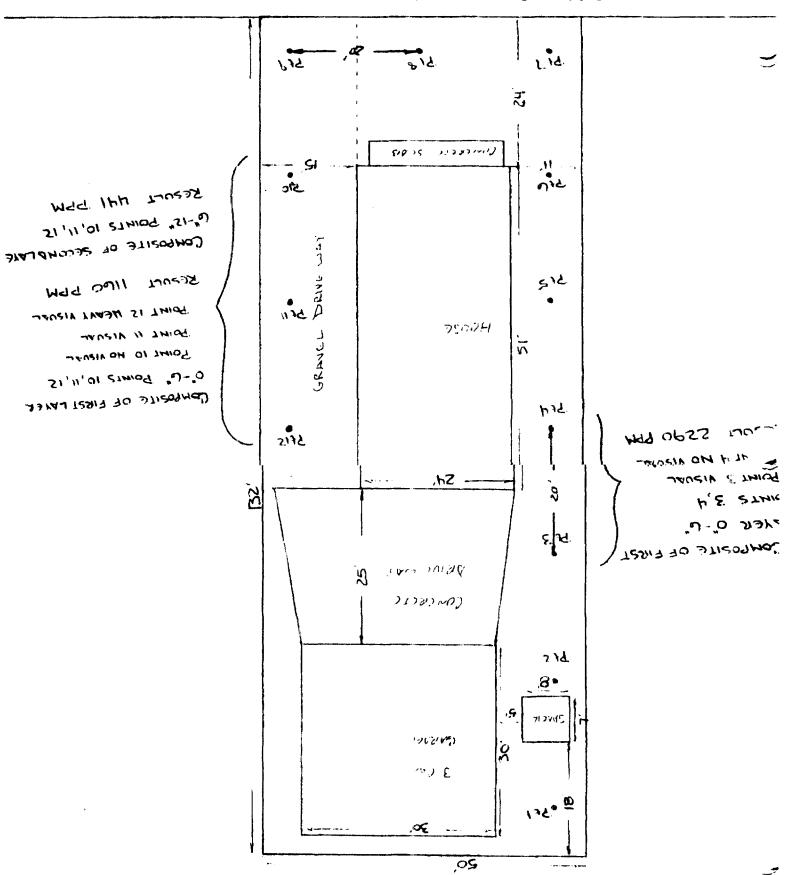
SITE NAME: CARVER

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S125-001	69.1	
S125-002	102	
S125-004	<b>229</b> 0	
S125-005	108	
S125-007	133	
S125-008	55.5	
S125-010	77.2	
S125-011	101	
S125-013	<b>116</b> 0	
S125-014	441	

# ECC RESULTS CARVER

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S125-016	125		
S125-017	88.4		
S125-018	118		
S125-019	20		
S125-020	54		
S125-021	106		
S125-022	120	Committee Commit	
S125-023	33.4		
S125-024	168		
S125-025	117		
S125-026A	118		
S125-020A	56.5		
S125-027	41.5		
S125-028 S125-029	29.2		
	32.5		
S125-031	32.5 133		
S125-032A			
S125-033A S125-034A	118		
	312		
S125-035A	62.1		
S125-036	170		
S125-037	50.8	angung man angungganggan sampligama. In day sh a manununsa sampli angungganggangganggangganggangganggan	Marie I adoles Mille Salles - No
S125-038	99.9		
S125-039	265		The state of the s
S125-040A	17.7		
S125-041	64.9		
S125-042A	78		
S125-043	255		
S125-044A	277		
S125-045	297		
S125-046	296		
S125-047	39		
S125-048	116		
S125-049A	175		
S125-050	319		
S125-051	48.2		
S125-200*	122		
S125-202*	152		
		77 XX	
	AND THE COLUMN TWO IS NOT THE COLUMN TWO IS		
	and the second s	1.000.00	
	4		

<sup>\*</sup> DENOTES DUPLICAT



#### ALLEY #21

Action Date:October 26, 1993Loadout:November 5, 1993Restoration Begins:November 6, 1993Restoration Completed:December 10, 1993

- Visual contamination was excavated yielding an estimated 253.16 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN, and Peoria Disposal Co. in Peoria, IL for stabilization.
- The remaining excavation yielded an estimated 240.5 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- ► During excavation activities, a cable TV line running the length of the alley was severed. This was repaired during the restoration phase.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).

#### Subcontractors:

- Beelman Truck Co.
  - Hauled Hazardous Waste
- Fort Transfer
  - Hauled Hazardous Waste
- Cunningham Trucking Co.
  - Hauled Special Waste
- Heritage Environmental
  - Hazardous Waste Disposal
- Peoria Disposal Co.
  - Hazardous Waste Disposal
- Laidlaw-Bridgeton
  - Special Waste Disposal

- . L. Wolf Co.
  - Rock
  - Tar Chip
- Quantity Summaries:
  - \* See Figure T.1
- Verification Analytical:
  - See Figure T.2

SITE NAME ALLEY 21

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFI	LL SAND	SEED/SOD	ROCK	TOP SOIL
21	253.16	240.5	506					

### PRE-CHARACTERIZATION SAMPLING RESULTS

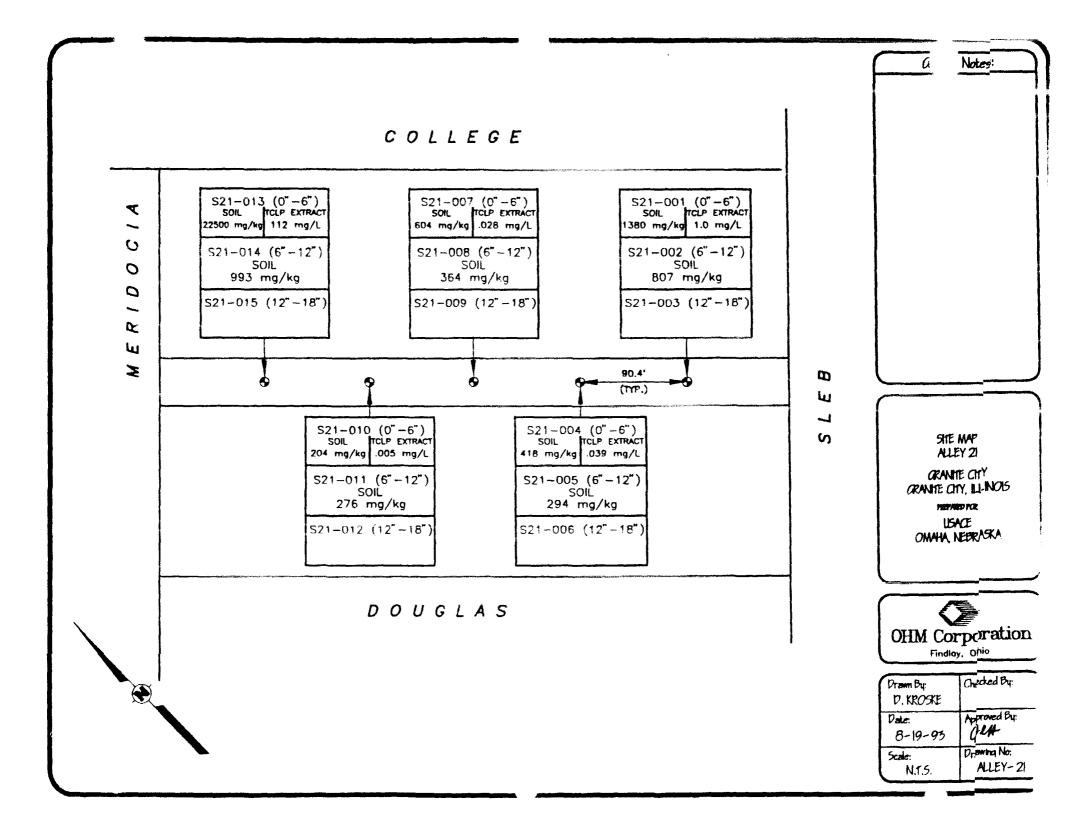
SITE NAME: ALLEY 21

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S21-001	1380	1
S21-002	807	
S21-004	418	0.39
S21-005	294	
S21-007	604	28
S21-008	364	
S21-010	204	0.005
S21-011	276	
S21-013	22500	112
S21-014	993	
	, , , , , , , , , , , , , , , , , , , ,	

# ECC RESULTS ALLEY 21

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S021-105	125	S021-153	218
S021-106	88.4	S021-154	278
S021-107A	118	S021-155	243
S021-108	20	S021-156A	328
S021-109	54	S021-157A	44.2
S021-110	106	S021-158	239
S021-111	120	S021-159A	228
S021-112	33.4	S021-160	265
S021-113	168	S021-161C	27.3
S021-114	117	S021-162B	47.4
S021-115	118	S021-163	293
S021-116	56.5	S021-164A	141
S021-117	41,5	S021-165A	30.5
S021-118	29.2	S021-166D	60.8
S021-119A	32.5	S021-167A	319
S021-120	133	S021-168	269
S021-121	118	S021-169	161
S021-122A	312	S021-170A	282
S021-123	62.1	S021-171	162
S021-124	170	S021-200*	49.1
S021-125B	50.8	S021-202*	126
S021-126	99.9	S021-206*	343
S021-127	265	S021-207*	128
S021-128B	17.7	S021-208*	40.9
S021-129	64.9		
S021-130	78		
S021-131A	255		
S021-132	277		
S021-133	297		
S021-134	296		
S021-135	39		
S021-136	116		
S021-137A	175		
S021-138	30.5		
S021-139A	19		
S021-140A	18.4		AND AND ADDRESS OF THE PARTY OF
S021-141A	103		
S021-142	106		
S021-143	524		
S021-143A	247	10.00	
S021-144	78.5		
S021-145	39.8		
S021-146A	34.6		
S021-140A	372		
S021-148	32.4		
S021-149B	18.6		
S021-149B	118		
S021-150 S021-151	90.4		ļ
S021-151 S021-152B	252		
3021-1328	632		:
			<u> </u>

<sup>\*</sup> DENOTES DUPLICAT



#### ALLEY #16

Action Date:

Loadout:

November 1, 1993

November 15, 1993

Restoration Begins:

November 16, 1993

Restoration Completed:

December 30, 1993

- Visual contamination was excavated yielding an estimated 277.5 cubic yards of hazardous waste, which was shipped to Heritage Environmental in Indianapolis, IN, and Envirite for stabilization.
- The remaining excavation yielded an estimated 407 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Bridgeton, MO for disposal.
- During the holiday shutdown, a sewer line and the west end of the alley sunk. This was repaired the following day.
- Equipment utilized during excavation:
  - Case 580 Backhoe (OHM).
  - John Deere 550 Bulldozer (Rental).
  - John Deere 544 Front Loader (Rental).
  - Ingersol-Rand 7.5 ton Double Drum Roller (Rental).
- Subcontractors:
  - Beelman Truck Co.
    - Hauled Hazardous Waste
  - Fort Transfer
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Heritage Environmental
    - Hazardous Waste Disposal
  - Envirite
    - Hazardous Waste Disposal
  - Laidlaw-Bridgeton
    - Special Waste Disposal

- L. Wolf Co.
  - Rock
  - Tar Chip
- Quantity Summaries:
  - See Figure U.1
- Verification Analytical:
  - See Figure U.2

SITE NAME ALLEY 16

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
16	277.5	407	700.5					

### **PRE-CHARACTERIZATION SAMPLING RESULTS**

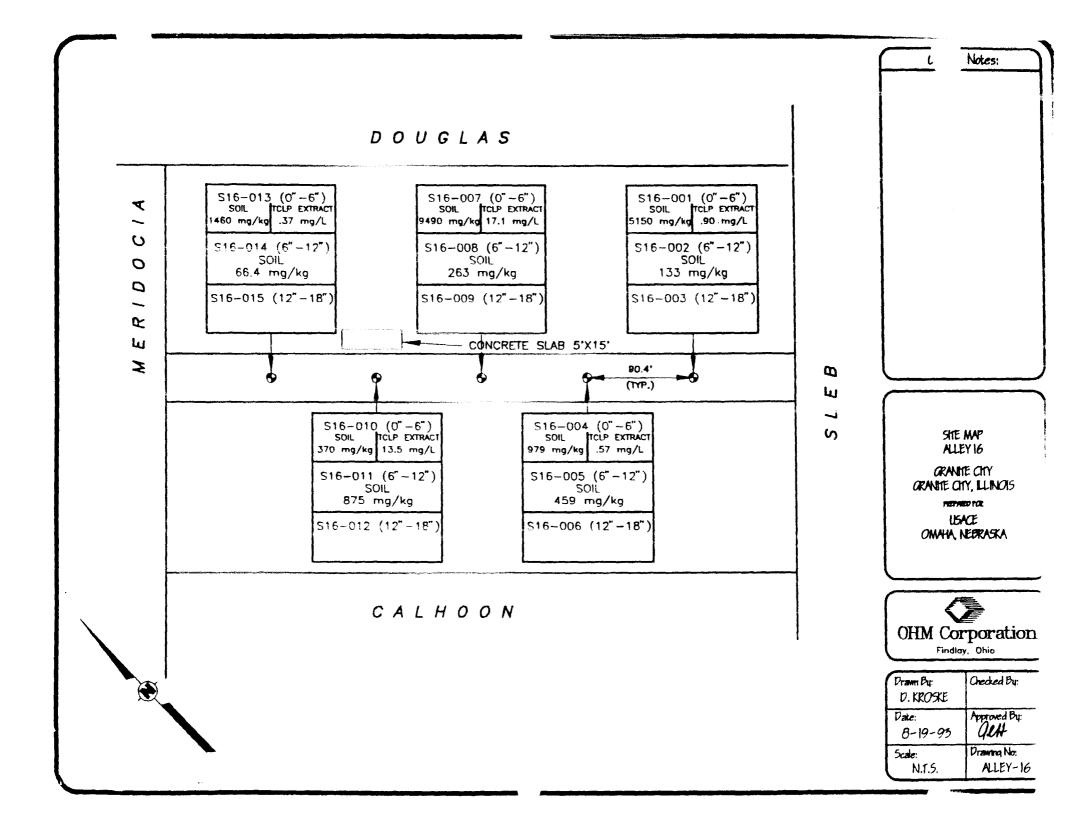
SITE NAME: ALLEY 16

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S16-001	<b>515</b> 0	9
S16-002	<b>13</b> 3	
S016-004	<b>97</b> 9	0.57
S16-005	459	
S16-007	<b>94</b> 90	17.1
S16-008	<b>2</b> 63	
S16-010	370	13.5
S16-011	875	
S16-013	<b>146</b> 0	0.37
S16-014	66.4	

# ECC RESULTS ALLEY 16

CTION NUMBER		SECTION NUMBER	RESULTS MG/KG
S016-100	12.2	S016-134A	7.6
S016-100A	5.6	S016-135	71.5
S016-101	56.7	S016-135A	11.4
SO16-101A	8.4	S016-136A	49.2
S016-102A	6	S016-137	196
S016-103	61	S016-137A	14.1
S016-103A	10.8	*\$016-138	168
S016-104	15.1	S016-138A	8.8
S016-104A	13.6	S016-139	293
S016-105	313	S016-139A	13.4
S016-105A	49.8	S016-140A	5.6
S016-106A	21.4	S016-141	64.4
S016-107	194	S016-141A	8.7
S016-107A	14.8	S016-142A	12.8
S016-108A	26.4	S016-143	100
S016-109	90.9	S016-143A	7
S016-109A	201	S016-144	1430
S016110	312	S016-144A	17.5
S016-110A	7.9	S016-145	151
S016-111A	175	*S016-145A	86.6
S016-112A	92.3	S016-146	47.1
S016-113C@	DEPTH	S016-146A	18.9
*S016-114	47.4	S016-147	34.9
S016-114A	47.6	*S016-148	75.4
S016-115A	89	S016-149	40.1
S016-116A	16.1	S016-149	54.7
S016-117A	274	S016-151	10.2
S016-118A	117	S016-152	6.2
S016-119A	9.9	S016-153B@	DEPTH
S016-020A	106	S016-153B@	
S016-020A		<del></del>	11.8
The state of the s	19.7	\$016-155 \$046-450	46.1
S016-022A	40.2	S016-156	40.5
S016-123	97.3	S016-157	49.6
S016-123A	40.3	S016-158	48.2
S016-124A	270	S016-159	76
S016-125A	23.8	S016-160	34.1
S016-126	180	S016-161	18.1
S016-126A	9	S016-162	102
*S016-127	108	S016-163	97.8
S01.6-1,27.4.	1,6	<b>ક</b> છ1ત્દ-1ત્દ4	ઈ.સ્ટ
S016-128	232	\$016-165	109
S016-128A	106	S016-166	141
*S016-129	121	S016-167	89.8
S016-129A	74.8	*S016-204	7.7
S016-130A	9.9	*S016-205	154
S016-131A	11	*S016-206	9.8
S016-132	66.8	*S016-207	9.9
C04C 4004	11.8	*\$016-208	53.9
S016-132A	11.0	, 00,0200	

<sup>\*</sup> DENOTES DUPLICAT @DENOTES THAT MAXIMUM DEPTH PER USACE WAS REACHED



#### NIEDRINGHAUS

Action Date: November 9, 1993
Loadout: November 22, 1993
Restoration Begins: November 22, 1993
Restoration Completed: January 28, 1993

- ► An excavation depth of six inches was determined by USACE before work commenced.
- ► The excavation of special waste yielded an estimated 851 cubic yards, which was shipped to Laidlaw-Roxanna.
- ► After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- ➤ Due to inclement weather conditions, the sod was uneverly distributed. This was corrected using a 7.5 ton compacting roller.
- Equipment utilized during excavation:
  - Kubota KX41 Mini-Excavator (Rental).
  - Case 1840 Skid-Steer Loader (Rental).
  - Takeuchi TL26 Track Loader (Rental).
  - John Deere 690 Excavator (Rental).
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental).
- Subcontractors
  - Cunningham Haulers
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Munie Outdoor Construction Co.
    - Sod Installation
- Quantity Summaries:
  - See Figure V.1

- Verification Analytical:
  - See Figure V.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 6"

### SITE NAME NIEDRINGHAUS

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE
822		851		43.35	504.5 TON		2752 TON		390 CU YD	

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: NIEDRINGHAUS

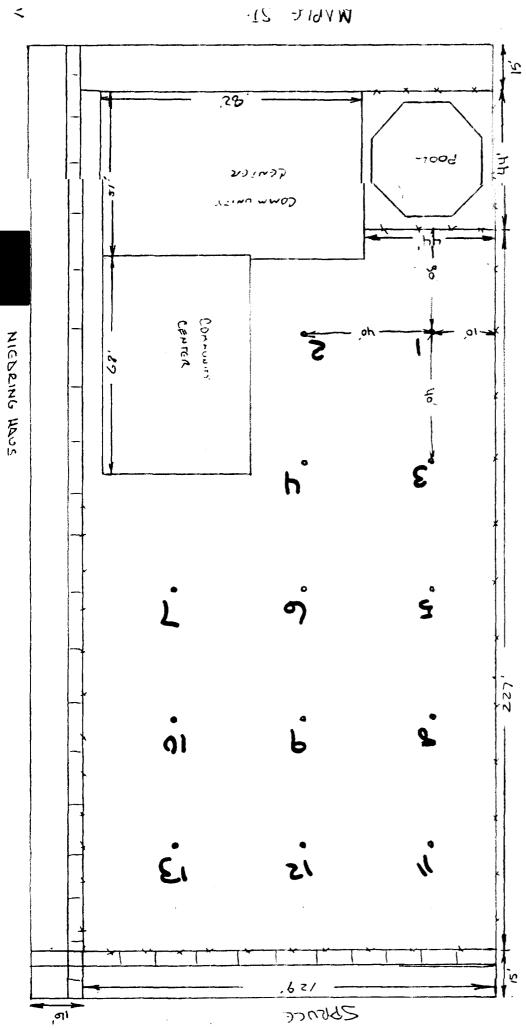
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S822-C001	72.7	BDL
S822-C002	119	
S822-C003	69.9	BDL
S822-C004	56.3	0.21
S822-C005	306	0.37
S822-C006	125	
S822-C007	304	BDL
S822-C008	201	
S822-C009	267	BDL
S822-C010	187	

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: NIEDRINGHAUS

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 6"





Action Date: November 10, 1993
Loadout: November 18, 1993
Restoration Begins: December 9, 1993
Restoration Completed: December 14, 1993

- An excavation depth of 12 inches was established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 259 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- During loadout activities, the entrance to the driveway was broken. This was replaced during the restoration phase
- After sod installation, the homeowner maintained watering on this site.
- Due to inclement weather, the sod was installed unevenly. This sod was stripped and replaced in spring.
- Equipment utilized during excavation:
  - Case 580 Backhoe (Rental).
  - Case 1840 Skid-steer Loader (Rental)
  - Bobcat X225 Mini-excavator (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - L. Wolf Co.
    - Concrete
  - Metro East Sand
    - Backfill

- Metro East Sand
  - Backfill
  - Topsoil
  - L. Wolf Co.
    - Concrete
  - Munie Outdoor Construction Co.
    - Sod Installation and Maintenance
- Quantity Summaries:
  - See Figure K.1
- Verification Analytical:
  - See Figure K.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

SITE NAME

STATE

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL 3" STONE	
1408		259		64.4	90 TON		430 SQ YD		60 CU YD	

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: STATE

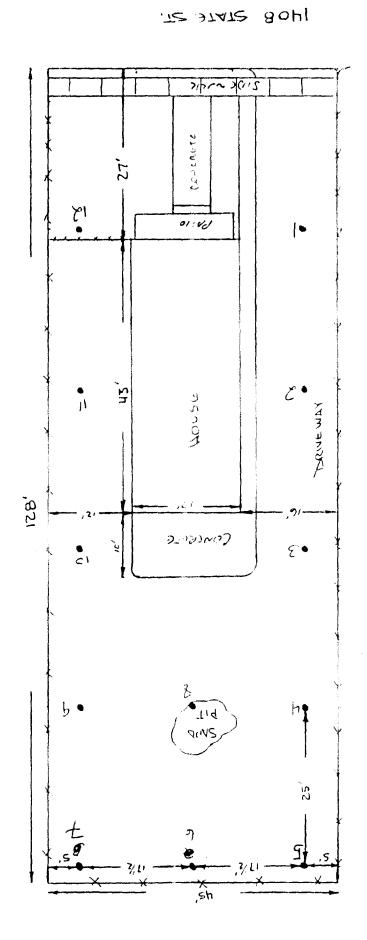
SAMPLE	TOTAL LEAD	TCLP LEAD		
NUMBER	MG/KG	MG/L		
1408-C00	741	BDL		
1408-C00	731			
1408-C00	727	BDL		
1408-C00	600			
1408-C00	607	BDL.		
1408-C00	1940			
1408-C00	647	BDL		
1408-C00	636	AND THE RESIDENCE OF THE PARTY		
1408-C00	580	0.42		
1408-C01	278			

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: STATE

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"





Action Date:

Loadout:

November 17, 1993

November 29, 1993

Restoration Begins:

December 8, 1993

Restoration Completed:

January 5, 1994

- An excavation depth of 12 inches was established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 721.5 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- During backfill activities, the entrance to the driveway was broken. This was replaced during the restoration phase.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Due to inclement weather, the sod was installed unevenly. This sod was stripped and replaced in spring.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - John Deere 444 Front Loader (Rental)
  - Komatsu PC90 Excavator (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - L. Wolf Co.
    - Concrete

- Metro East Sand
  - Backfill
- Quantity Summaries:
  - See Figure X.1
- Verification Analytical:
  - See Figure X.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

SITE NAME GRAND

i	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
	1410	The state of the s	721.5		46.75	297 TON		1800 SQ YD		243 CU YD

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: GRAND

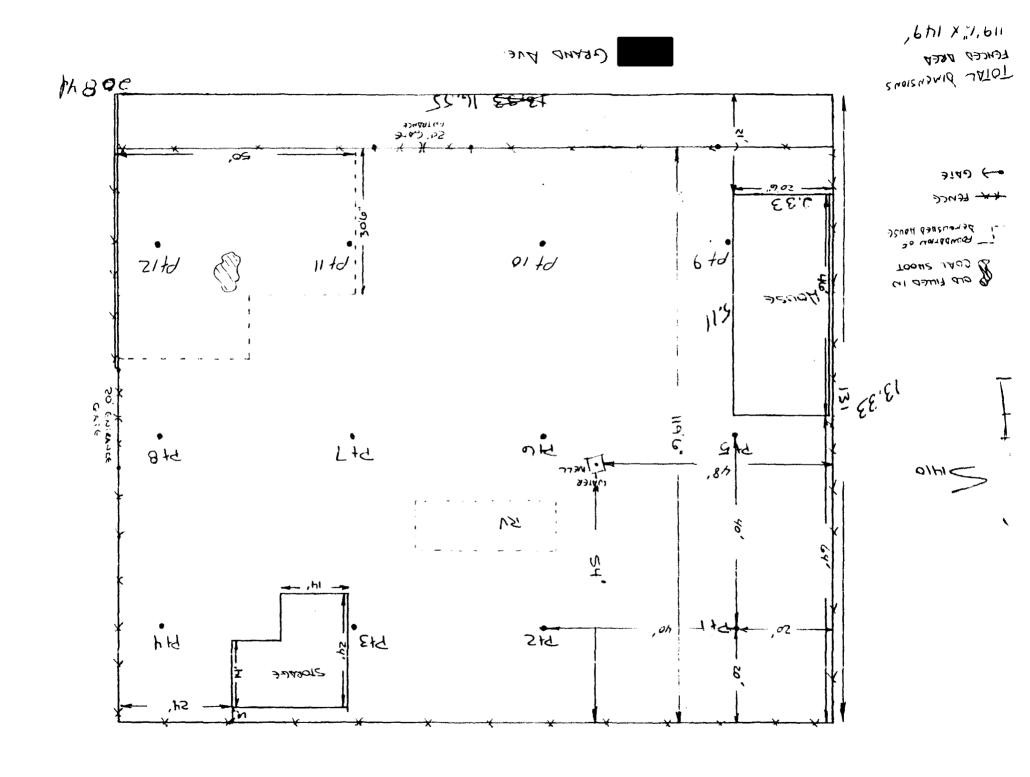
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1410C-001		0.51
S1410C-002		0.27
S1410C-003		0.34
S1410C-004		0.19
S1410C-005		0.16
S1410C-006		0.45
S1410C-007		0.28
S1410C-008		0.45
S1410C-009	The same of the sa	0.3
S1410C-010		4
:	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	
		9.00 <b>00000</b>

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: GRAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"





Action Date:

Loadout:
December 9, 1993
Restoration Begins:
December 9, 1993
Restoration Completed:
January 9, 1994

- An excavation depth of 12 inches was established by USACE prior to work commencing.
- The excavation of special waste yielded an estimated 222 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- ▶ During backfill activities, two sections of city sidewalk was broken. This was replaced during the restoration phase.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- ► Due to inclement weather, the sod was installed unevenly. This sod was stripped and replaced in spring.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - Kubota KX41 Mini Excavator (Rental)
  - Komatsu PC90 Excavator (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - · L. Wolf Co.
    - Concrete

- Metro East Sand
  - Backfill
- Quantity Summaries:
  - See Figure Y.1
  - Verification Analytical:
    - See Figure Y.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

SITE NAME

GRAND

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
1442		222			180 TON		650 SQ YD		138 CU YD

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: GRAND

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1442-100	1070	
S1442-101	522	
S1442-102	163	
S1442-103	390	
S1442-104	964	
S1442-105	662	
S1442-106	1240	
S1442-107	691	
S1442-108	792	
S1442-109	5740	
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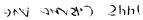
OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

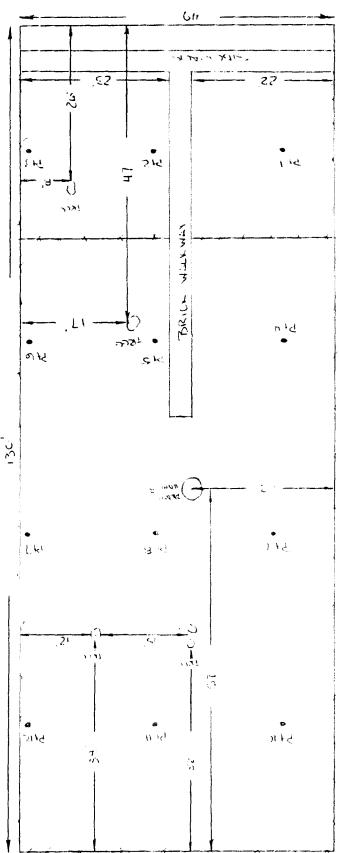
SITE NAME: GRAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"

TOTAL DIMENSIONS





40:173/17/2011/04/27/5/1044 C.P. 45.01 03.944/C.D



Action Date:

Loadout:

Restoration Begins:

Restoration Completed:

November 30, 1993

December 5, 1993

December 6, 1993

December 9, 1993

- ► An excavation depth of 12 inches was established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 314.5 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - Bobcat X225 Mini Excavator (Rental)
  - John Deere 444 Front Loader (Rental)
- Subcontractors
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - · Laidlaw-Roxanna
    - Special Waste Disposal
- Munie Outdoor Construction Co.
  - Sod Installation
- Metro East Sand
  - Backfill
- Quantity Summaries:
  - Figure Z.1
- Verification Analytical
  - See Figure Z.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

SITE NAME DELMAR

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
1630		314.5		29.8	153 TON		700 SQ YD		

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: DELMAR

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
1630-100A	<b>228</b> 0	
1630-100B	1460	
1630-100C	<b>76</b> 0	
1630-200A	<b>139</b> 0	
1630-200B	<b>136</b> 0	
1630-200C	307	
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OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

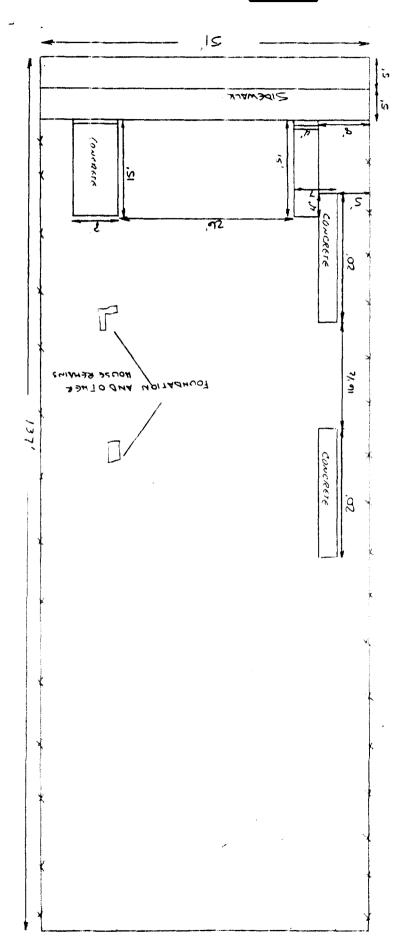
SITE NAME: DELMAR

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"

DELMAR

TOTA: DIMENSIONS





Action Date: December 1, 1993

Loadout: December 7, 1993

**Restoration Begins**: December 7, 1993

Restoration Completed: December 12, 1993

An excavation depth of 12 inches ws established by USACE prior to work commencing.

- ► The excavation of special waste yielded an estimated 240.5 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- During excavation activities, one section of city sidewalk, and 20 feet of the homeowners sidewalk was broken. This was replaced during the restoration phase.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable
- ► Due to inclement weather, the sod was installed unevenly. This sod was stripped and replaced in spring.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - Kubota KX41 Mini Excavator (Rental)
  - Komatsu PC90 Excavator (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Munie Outdoor Construction Co
    - Sod Installation

- L. Wolf Co.
  - Concrete
- Metro East Sand
  - Backfill
- Quantity Summaries:
  - See Figure AA.1
- Verification Analytical:
  - See Figure AA.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12'

SITE NAME

GRAND

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
1443		240.5		72.28	27 TON		427 SQ YD		63 CU YD

# OHM CORPORATION PROJECT 13407

#### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: GRAND

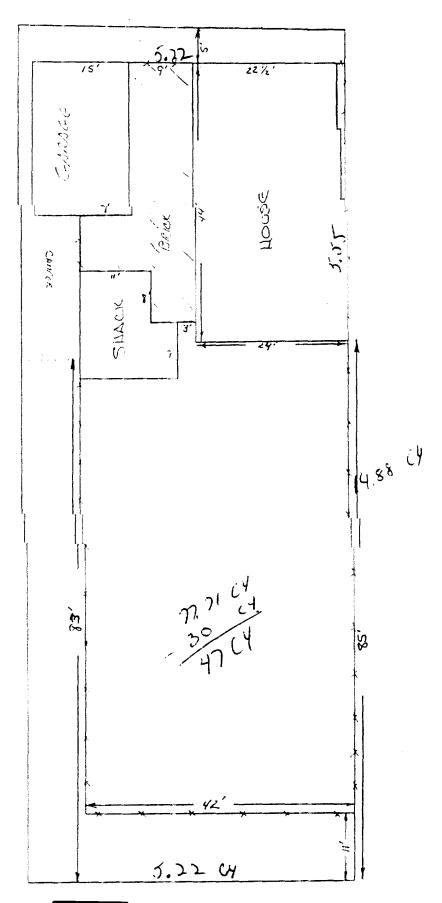
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1443-100	711	
\$1443-101	307	
S1443-102	816	
S1443-103	<b>27</b> 9	
S1443-104	443	
S1443-105	162	
S1443-106	689	
S1443-107	<b>34</b> 0	
S1443-108	719	
S1443-109	1740	
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OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: GRAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"



Total Dynamisians

GRAND AVE.

Comptated



Action Date: December 3, 1993

Loadout: December 7, 1993

Restoration Begins: December 8, 1993

**Restoration Completed**: January 6, 1994

► An excavation depth of 12 inches ws established by USACE prior to work commencing.

- ► The excavation of special waste yielded an estimated 222 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- ► During the restoration phase, the driveway entrance was broken. This was replaced during the restoration phase.
- ► After sod installation, Munie Outdoor Construction Company crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - Bobcat X225 Mini Excavator (Rental)
  - Case 580 Backhoe (Rental)
  - John Deere 444 Front Loader (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - · L. Wolf Co.
    - Concrete

- Metro East Sand
  - Backfill
- Quantity Summaries
  - See Figure AB.1
- Verification Analytical
  - See Figure AB.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

SITE NAME CLEVELAND

1	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
Ī	1642		222		29.8	90 TON		720 SQ YD		76 CU YD

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: CLEVELAND

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1642-C001		1.6
S1642-C002		0.6
S1642-C003		0.21
S1642-C004		BDL
S1642-C005		0.4
S1642-C006		BDL
S1642-C007	The state of the s	0.38
S1642-C008		BDL
S1642-C009		0.25
S1642-C010		BDL

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: CLEVELAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"

totalo man

CLEVELAND

"IHI x "OS TOTAL DIMENSIONS 450 / that

SIDEMALK 0 ۵ Ð 141, O Ű CRAMEL SIDEWALL 21 ,h2. ,15 43'6"



Action Date: December 3, 1993
Loadout: December 7, 1993
Restoration Begins: December 7, 1993
Restoration Completed: December 13, 1993

- An excavation depth of 6 inches was established by USACE prior to work commencing
- The excavation of special waste yielded an estimated 74 cubic yards, which was shipped to Laidlaw-Roxanna for disposal
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental)
  - Bobcat X225 Mini Excavator (Rental)
  - John Deere 444 Front Loader (Rental)
  - Ingersol-Rand 7.5 Ton Double Drum Roller (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
- Quantity Summaries:
  - See Figure AC.1
- Verification Analytical:
  - See Figure AC.2

Pre-Determined Depth: 6"

SITE NAME CLEVELAND

SITE	#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
164	0		74					270 SQ YD		54

### OHM CORPORATION PROJECT 13407

#### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: CLEVELAND

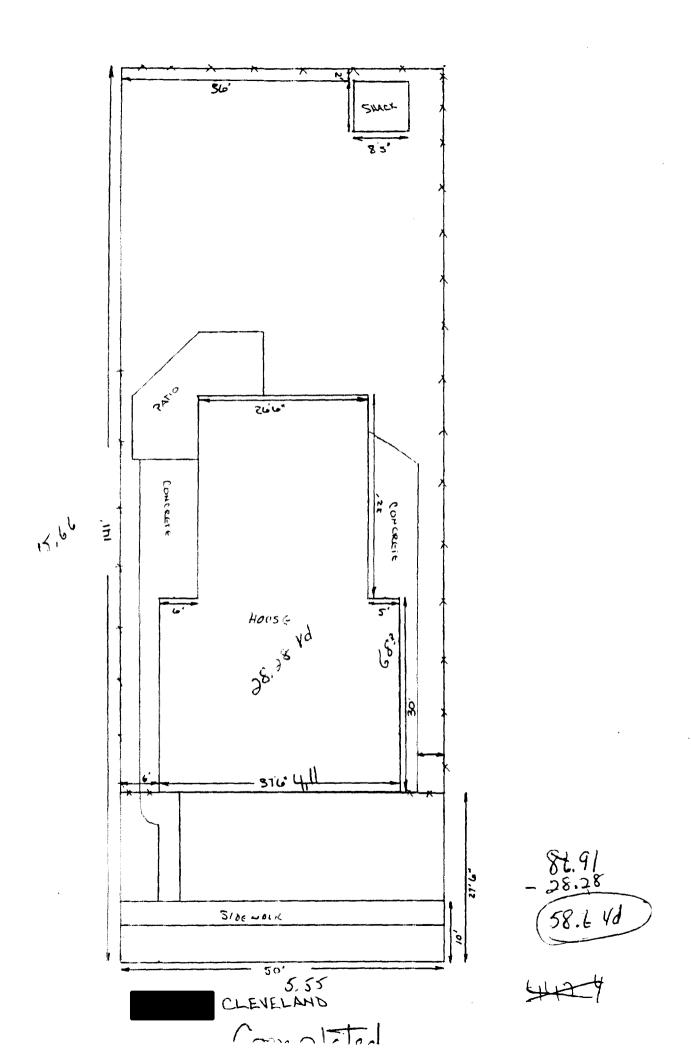
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1640-C001		0.91
S1640-C002		0.71
S1640-C003		0.75
S1640-C004		0.31
S1640-C005		0.95
S1640-C006		0.2
S1640-C007		0.42
S1640-C008		0.22
S1640-C009		BDL.
S1640-C010		BDL

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: CLEVELAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 6"



### MADISON AVENUE

**Action Date:** 

December 9, 1993

Loadout:

December 11, 1993

**Restoration Begins:** 

December 11, 1993

**Restoration Completed:** 

December 16, 1993

- An excavation depth of 12 inches was established by USACE prior to work commencing.
- The excavation of special waste yielded an estimated 148 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- ► During excavation activities, a basement window was broken. This was replaced immediately.
- ► After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental)
  - Kubota KX41 Mini Excavator (Rental)
  - Case 580 Backhoe (Rental)
  - John Deere 444 Front Loader (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
- Munie Outdoor Construction Co.
  - Sod Installation
  - Metro East Sand
    - Backfill
    - Sand

- Topsoil
- Quantity Summaries:
  - See Figure AD.1
- Verification Analytical:
  - See Figure AD.2

Pre-Determined Depth: 12"



į	SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE	
	1429		148		42,25	54 TON		350 SQ YD		96 CU YD		

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: MADISON

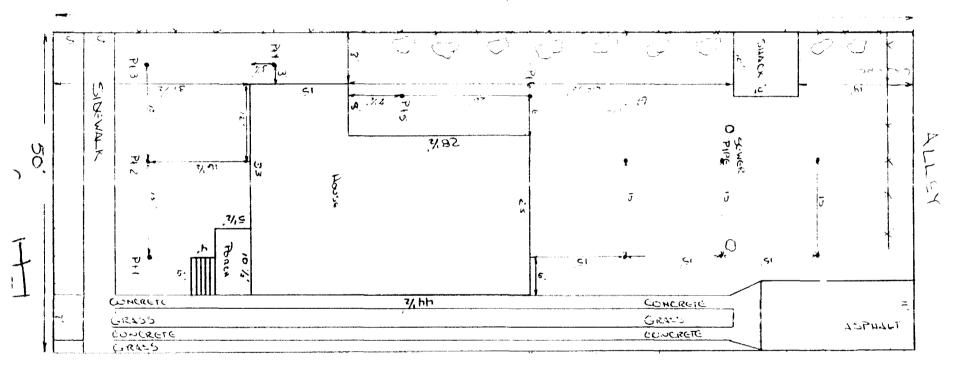
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1429-037		895
S1429-039		549
S1429-040		569
S1429-041		313
S1429-043		879
S1429-044		305
S1429-046		893
S1429-047		954
S1429-049		853
S1429-050		657
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OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: MADISON

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"



Drawn or Fix

MAIDISON ST.

#### DELMAR AVE.

Action Date: December 9, 1993
Loadout: December 11, 1993
Restoration Begins: December 10, 1993
Restoration Completed: December 13, 1993

- ► An excavation depth of 6 inches was established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 111 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- During excavation activities, the concrete steps in front of the residence were chipped. This was repaired during the restoration phase.
- ▶ After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental)
  - Bobcat X225 Mini Excavator (Rental)
  - Case 580 Backhoe (Rental)
  - John Deere 444 Front Loader (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Munie Outdoor Construction Co.
    - Sod Installation
  - · Metro East Sand
    - Backfill
    - Sand
    - Topsoil
  - L. Wolf Co.
    - · Concrete

- Quantity Summaries:
  - See Figure AE.1
- Verification Analytical:
  - See Figure AE.2

Pre-Determined Depth: 6"

SITE NAME DELMAR

I	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	ĺ
-	1633		111		32.25	81 TON		495 SQ YD			

# OHM CORPORATION PROJECT 13407

#### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: DELMAR

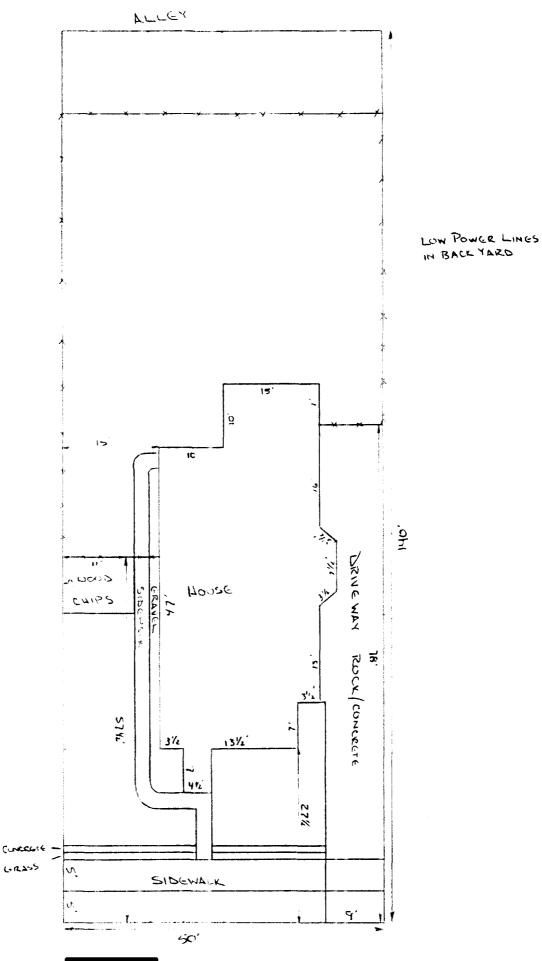
TOTAL LEAD	TCLP LEAD
MG/KG	MG/L
2260	
1400	
427	
1890	
1080	
367	
Comprision and the second of the comprision of the second	
<ul> <li>If the property of the property o</li></ul>	
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€ · · · · · · · · · · · · · · · · · · ·	
	MG/KG 2260 1400 427 1890 1080

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: DELMAR

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 6"



TUTAL DIMENSIONS

50 × 140

DELMAR 0 -1-+-1



Action Date:December 10, 1993Loadout:December 16, 1993Restoration Begins:December 14, 1993Restoration Completed:December 20, 1993

- ► An excavation depth of 12 inches ws established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 111 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- During Backfill activities, an outdoor water spigot was broken. This was repaired immediately.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation
  - Takeuchi TL26 Mini Track Loader (Rental)
  - Kubota KX41 Mini Excavator (Rental)
  - Case 580 Backhoe (Rental)
  - Komatsu PC90 Excavator (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - Metro East Sand
    - Backfill
- Quantity Summaries

- See Figure AF.1
- Verification Analytical:
  - See Figure AF.2

Pre-Determined Depth: 12"

SITE NAME GRAND

ĺ	SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
	1440		111			18 TON		230 SQ YD		80 CU YD

### OHM CORPORATION PROJECT 13407

### **PRE-CHARACTERIZATION SAMPLING RESULTS**

SITE NAME: GRAND

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1440-001	727	0.2
S1440-002	403	
S1440-004	<b>102</b> 0	0.33
S1440-005	242	
S1440-007	677	0.37
S1440-008	<b>52</b> 8	
S1440-010	<b>85</b> 9	0.19
S1440-011	<b>59</b> 0	
S1440-013	444	0.18
S1440-014	531	

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: GRAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"

VLLEY

TZ OHASO



Action Date:December 13, 1993Loadout:December 15, 1993Restoration Begins:December 15, 1993Restoration Completed:December 28, 1993

- An excavation depth of 6 inches ws established by USACE prior to work commencing.
- The excavation of special waste yielded an estimated 129.5 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- After sod installation, Munie Outdoor Construction Co. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental)
  - Bobcat X225 Mini Excavator (Rental)
  - John Deere 444 Front Loader (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal.
  - Munie Outdoor Construction Co.
    - Sod Installation
  - Metro East Sand
    - Backfill
  - L. Wolf Co.
    - Concrete
- Quantity Summaries:
  - See Figure AG.1

- Verification Analytical:See Figure AG.2

Pre-Determined Depth: 6"



SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL
1643		129.5		14.15			585 SQ YD		128 CU YD

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: EDISON

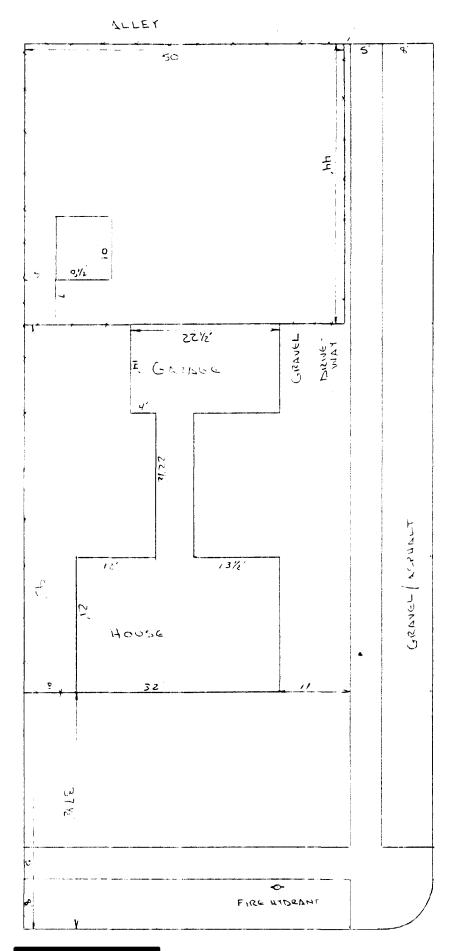
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
1643-100A	1630	
1643-100B	1400	
1643-100C	454	
1643-200A	1350	
1643-200B	345	
1643-200C	262	

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: EDISON

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 6"



EDISON ST.

DRAWN BY PDC



Action Date:January 4, 1994Loadout:January 7, 1994Restoration Begins:January 7, 1994Restoration Completed:February 4, 1994

- See Figure AH.1
- Verification Analytical:
  - See Figure AH.2

Pre-Determined Depth: 12"

SITE NAME GRAND

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL	3" STONE
1444		296	90			700 SQ YD		415.58	15 TON

## PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: GRAND

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S1444-001	1540	0.68
S1444-002	983	
S1444-004	1490	0.74
S1444-005	1570	
S1444-007	1890	0.94
S1444-008	1230	
S1444-010	655	0.18
S1444-011	440	
S1444-013	1580	0.46
S1444-014	2300	

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME: GRAND

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"

DRAWN DY PV



Action Date:

Loadout:
February 17, 1994
February 10, 1994
February 10, 1994
February 10, 1994
February 14, 1994

- ► An excavation depth of 12 inches was established by USACE prior to work commencing.
- ► The excavation of special waste yielded an estimated 37 cubic yards, which was shipped to Laidlaw-Roxanna for disposal.
- After sod installation, OHM Corp. crews watered until sod was stable.
- Equipment utilized during excavation:
  - Takeuchi TL26 Mini Track Loader (Rental).
  - John Deere 444 Front Loader (Rental)
  - Kubota KX41 Mini Excavator (Rental)
  - Komatsu PC90 Excavator (Rental)
- Subcontractors:
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Metro East Sand
    - Backfill
- Quantity Summaries:
  - See Figure AI.1
- Verification Analytical:
  - See Figure AI.2

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-Determined Depth: 12"

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14	Z.)	/VI /~			•	١,	٧.

Site Name: 1423 Madison

Stack emission sites were not sampled for verification due to the fact that a pre-determined depth for excavation was given to OHM by USACE.

Pre-determined depth: 12 inch

SITE NAME MADISON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	ROCK	TOP SOIL 3" STO	NE
1423		37		147.9		109.4	300 SQ YD		154 CU YD	

## PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: MADISON

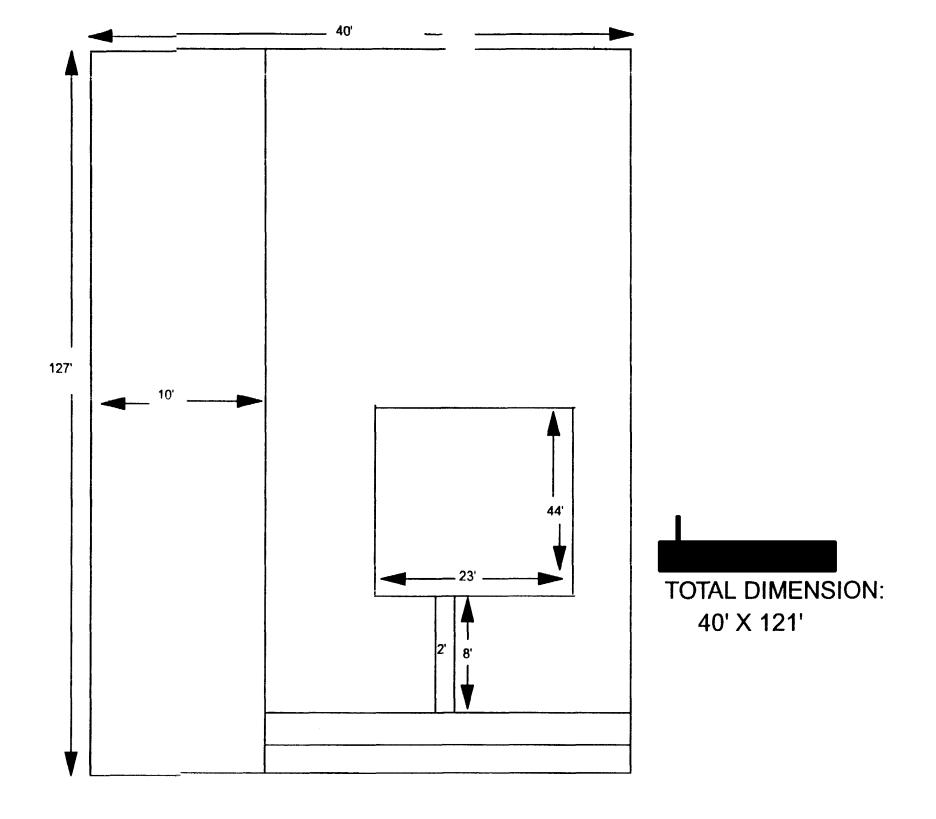
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
1423-100A	2040	
1423-100A	1940	
1423-100B	809	
1423-100B	715	
1423-100C	<b>57</b> 0	
1423-100C	235	
1423-200A	1130	
1423-200B	1670	
1423-200C	171	

OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 12/6/94

SITE NAME MADISON

STACK EMISSION SITES WERE NOT SAMPLED FOR VERIFICATION DUE TO THE FACT THAT A PRE-DETERMINED DEPTH FOR EXCAVATION WAS GIVEN TO OHM BY USACE.

PRE-DETERMINED DEPTH: 12"



#### Alley #53

Action Date:April 26, 1994Loadout:May 13, 1994Restoration Begins:May 20, 1994Restoration Completed:May 25, 1994

- Visual contamination was excavated yielding an estimated 551 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 306 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal. This alley was the longest and excavation ranged to four feet in some areas due to heavy rains and muddy conditions during site activities. An approximately 75 foot length of fence belonging to the resident at the Granville Street end of the alley was damaged during operations. A suitable solution has not yet been resolved with the owner an the EPA.
- ► Tarring and chipping of this alley were completed during the week of September 4, 1994
- Equipment utilized during excavation
  - Komatsu D37 Bulldozer (Rental).
  - Komatsu WA180 Loader (Rental).
  - Komatsu PC150 Excavator (Rental).
  - JCB 214 Backhoe (Rental).
  - John Deere 444 Loader (Rental).
- Subcontractors:
  - \*Atlantic Waste Services
    - Hauled Hazardous Waste
  - \*Cunningham Trucking Co.
    - Hauled Special Waste
  - \*Laidlaw-Roxanna.
    - Special Waste Disposal.
  - \*Metro East Sand
    - Stone

• Quantity Summaries:

\*See Figure AJ.1

• Verification Analytical:

\*See Figure AJ.2

## **QUANTITY SUMMARY**

## SITE NAME ALLEY 53

### **SUB CONTRACTOR H. WOLFE**

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
53	550.4	306							592.45 TON

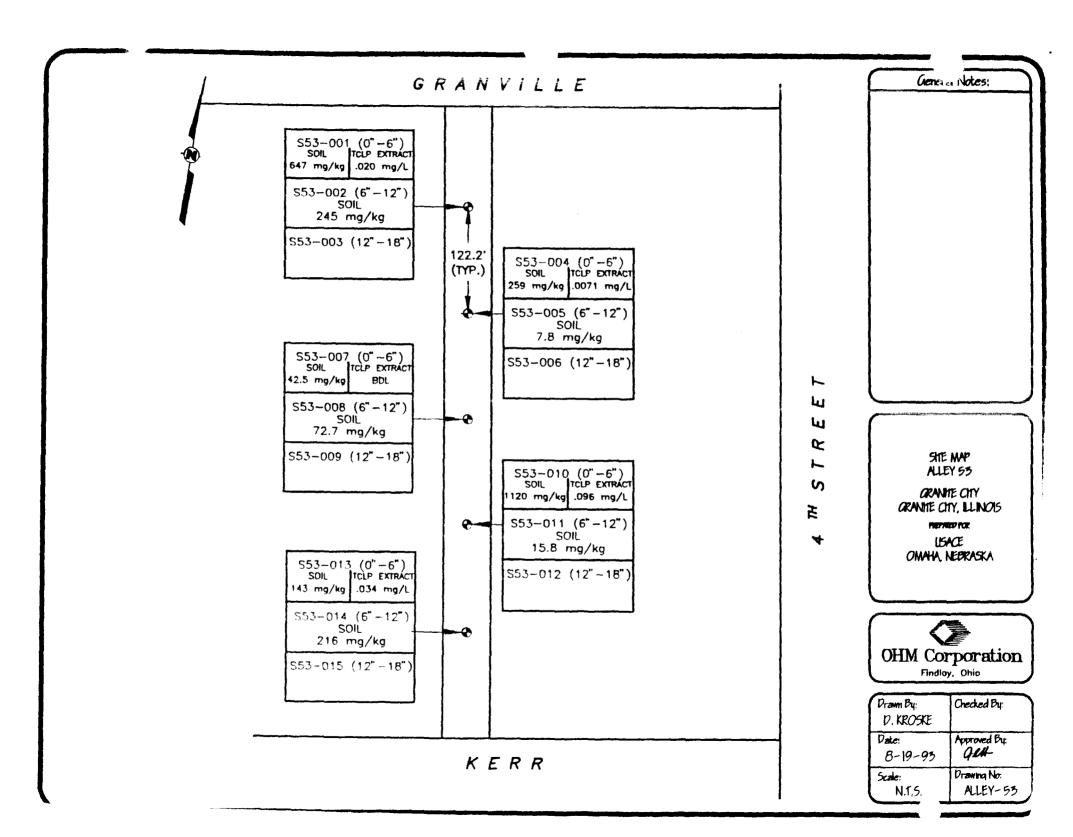
## PRE-CHARACTERIZATION SAMPLING RESULTS

**SITE NAME:** ALLEY 53

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S53-001	647	0.02
S53-002	245	
S53-004	259	0.0071
S53-005	7.8	
S53-007	42.5	BDL
S53-008	72.7	
S53-010	1120	0.096
S53-011	15.8	
S53-013	143	0.034
S53-014	216	

# ECC RESULTS ALLEY 53

SECTION NUMBER	RESULTS MG/KG
S053 0102	25 '
S053 0202	118
S053 0302	165
S053 0401	307
S053 0501	90
S053 0601	238
S053 0701	167
S053 0801	70 .
S053 0901	166
S053 1001	82
S053 1102	219
S053 1202	165 :
S053 1302	246 *
S053 1401	198 •
S053 1501	300 •
S053 1602	152 *
S053 1701	365
S053 1802	اسر 124
S053 1901	206 *
S053 2001	448 /
S053 2101	197 *
S053 2202	175 •
S053 2302	313 `
S053 2402	289 `



#### **ALLEY #49**

Action Date:May 2, 1994Loadout:May 10, 1994Restoration Begins:May 20, 1994Restoration Completed:May 25, 1994

- Visual contamination was excavated yielding an estimated 555 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 90 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Roxanna, IL for disposal. Total excavation ranged about 2 1/2 to 3 feet. No incidents.
- Tarring and chipping of this alley were completed during the week of September 4, 1994.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer
  - John Deere 444 Loader
  - JCB 214 Backhoe
  - Komatsu WA180 Loader
  - 753 Bobcat
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - · Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Metro East
    - Stone
  - L. Wolfe Co.
    - Rock
    - Tar Chip
    - Backfill

- Quantity Summaries:
  - See Figure AK.1
- Verification Analytical:
  - See Figure AK.2

## **QUANTITY SUMMARY**

## SITE NAME ALLEY 49

## SUB CONTRACTOR H. WOLFE

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
49	554.5	90							602.05 TON

## **PRE-CHARACTERIZATION SAMPLING RESULTS**

**SITE NAME: ALLEY 49** 

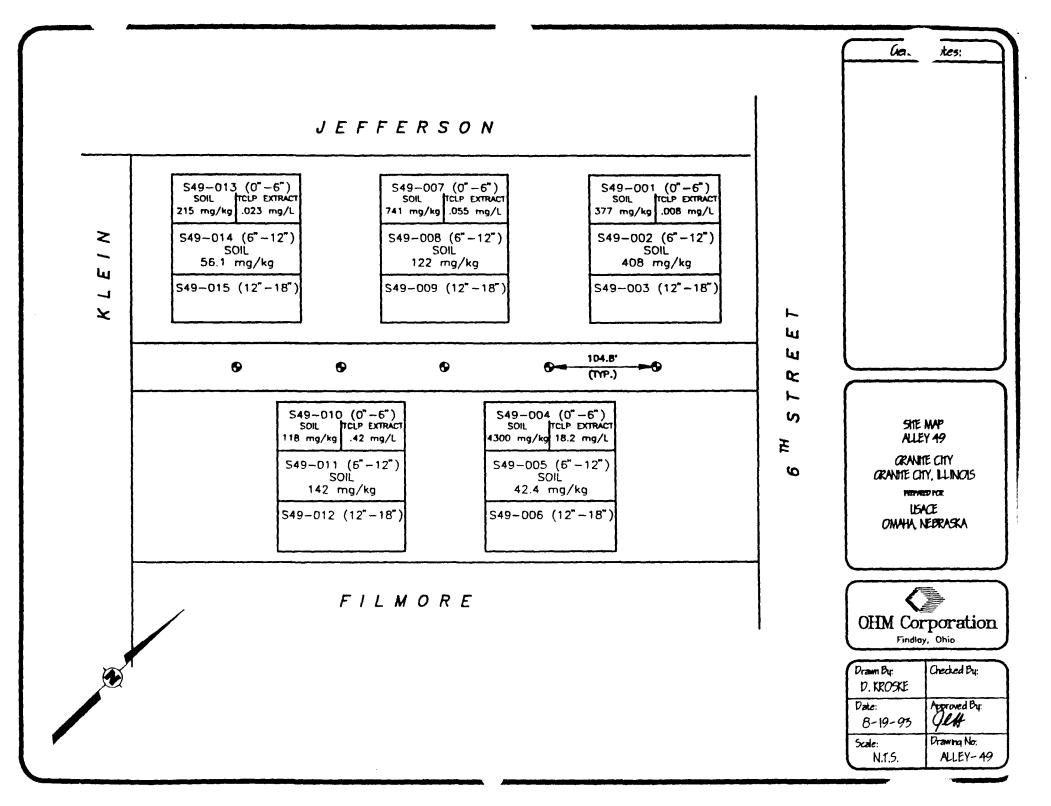
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S49-001	377	0.008
S49-002	408	
S49-004	4300	18.2
S49-005	42.4	
S49-007	741	0.055
S49-008	122	
S49-010	118	0.42
S49-011	142	
S49-013	215	0.23
S49-014	56.1	

## ECC RESULTS

ALLEY 49

## SECTION NUMBER RESULTS MG/KG

S049-0101	218
S049-0201	162 ·
S049-0303	72.2
S049-0403	214
S049-0503	24.4
S049-0603	53 h
S049-0702	108 .
S049-0801	173
S049-0901	14.9
S049-1001	83.3
S049-1101	36.6
S049-1201	485 •
S049-1302	81.5
S049-1402	22.5
S049-1501	38.3
S049-1601	193 DUP 126 •
S049-1701	28.6
S049-1801	27.1
S049-1901	173 •
S049-2001	143
S049-2101	29.9



### ALLEY #62

Action Date: May 6, 1994
Loadout: June 14, 1994
Restoration Begins: June 15, 1994
Restoration Completed: June 22, 1994

- Visual contamination was excavated yielding an estimated 260 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 54 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- Tarring and chipping of this alley were completed during the week of September 4, 1994.
- A sewage serviceline ran down the center of this alley. The resident at 201 Granville St. indicated they lost their sewage service during activities. After investigating, it was apparent that with no way of proving fault, the best solution was to repair it. This was done.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer (Rental).
  - Komatsu WA180 Loader (Rental).
  - Ingersol-Rand 10 ton Smooth Drum Roller (Rental).
  - JCB 214 Backhoe (Rental).
  - John Deere 444 Loader (Rental).
  - Bobcat 753 Skid Steer Loader (Rental)
- Subcontractors:
  - Atlantic Waste Services
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna.
    - Special Waste Disposal.
  - Metro East Sand
    - Stone
- Quantity Summaries:

- See Figure AL.1
- Verification Analytical:
  - See Figure AL.2

## QUANTITE SUMMARY

## SITE NAME ALLEY 62

### SUB CONTRACTOR

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
62	259.16	54							340.75

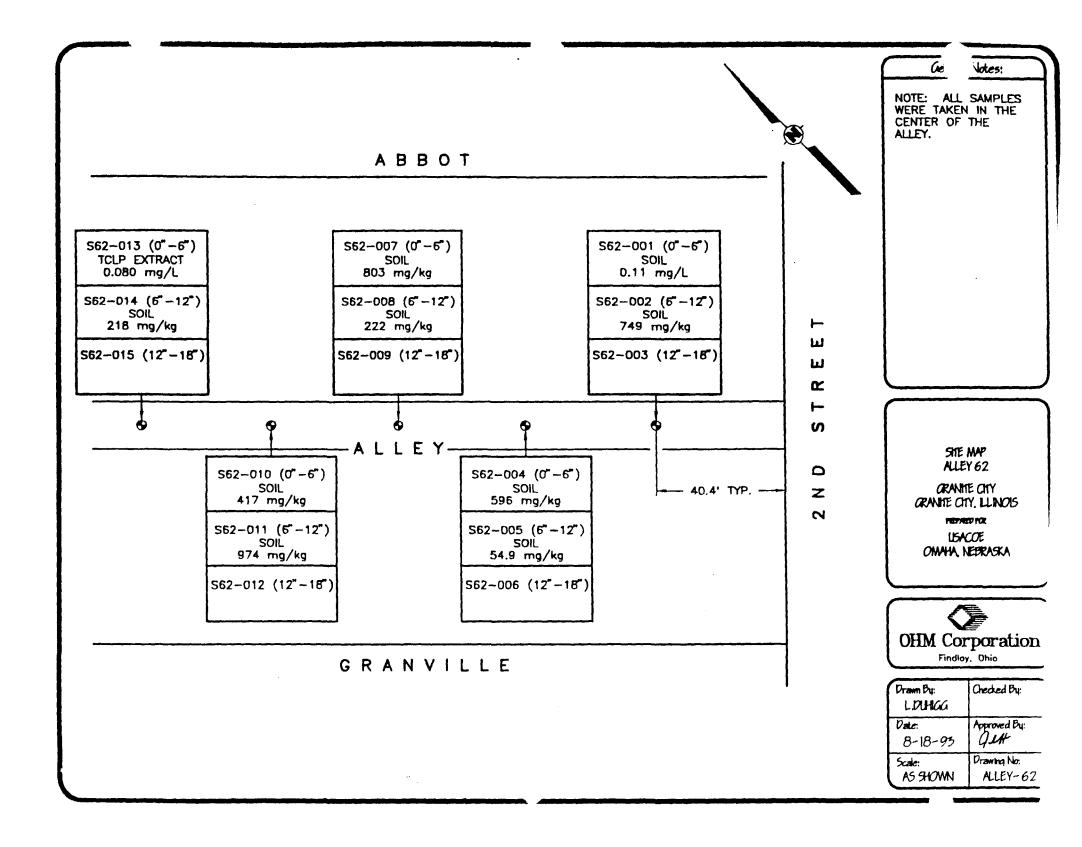
## PRE-CHARACTERIZATION SAMPLING RESULTS

**SITE NAME:** ALLEY 62

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S62-001	0.11	
S62-002	749	
S62-004	596	
S62-005	54.9	
S62-007	803	
S62-008	222	
S62-010	417	
S62-011	974	
S62-013	0.08	
S62-014	218	

## ECC RESULTS ALLEY 062

SECTION NUMBER	RESULTS MG/KG
S062 0102	16.9
S062 0202	126
S062 0301	351
S062 0401	188
S062 0501	150
S062 0601	144
S062 0701	283
S062 0801	476
S062 0901	408
S062 1002	62.2
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#### **ALLEY #6**

Action Date: May 10, 1994
Loadout: June 22, 1994
Restoration Begins: June 23, 1994
Restoration Completed: June 28, 1994

- ► Due to a 4" main gas service line running down the middle of the alley, excavation was cautious and much hand work was done. A sand barrier was placed over the gas line during restoration.
- Visual contamination was excavated yielding an estimated 312 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 162 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal.
- ► Total excavated depth was 2.5 to 3 feet deep.
- ► Tarring and chipping of this alley were completed during the week of September 4, 1994.
- ▶ During the restoration phase, the roller compacting the aggregate slid and damaged the property owner's chain link fence at the Seib Street end of the alley. The fence was repaired.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer (Rental).
  - Bobcat 753 Skid Steer Loader (Rental).
  - Komatsu PC220 Excavator (Rental).
  - JCB 214 Backhoe (Rental).
  - John Deere 444 Loader (Rental).
  - Ingersol-Rand 10 ton Smooth Drum Roller (Rental).
- Subcontractors:
  - Atlantic Waste Services
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal

- Metro East Sand
  - Stone
- L. Wolf Co.
  - Tar & Chip Activities
- Quantity Summaries
  - See Figure AJ.1
- Verification Analytical
  - See Figure AJ.2

## QUANTILI SUMMARY

## SITE NAME ALLEY 6

## **SUB CONTRACTOR H. WOLFE**

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
6	312	234	289.25	250.64		163.8 TON			

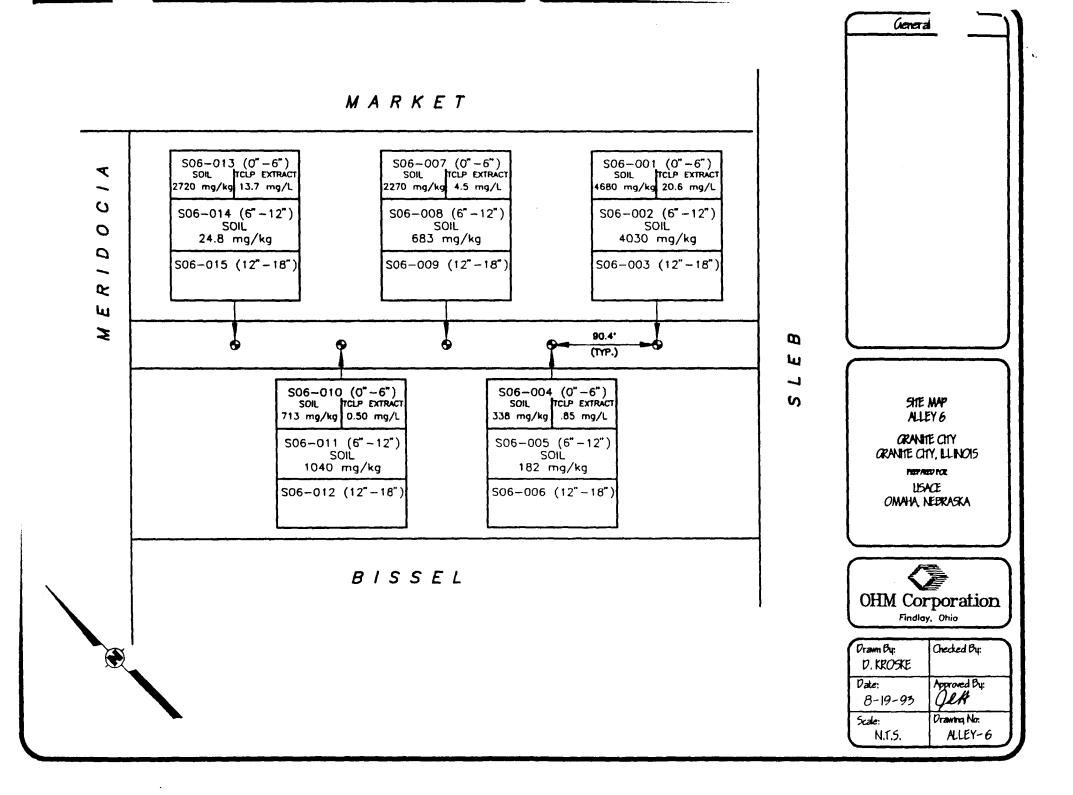
## PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: ALLEY 6

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S06-001	4680	20.6
S06-002	4030	
S06-004	338	0.85
S06-005	182	
S06-007	2270	4.5
S06-008	683	
S06-010	713	0.5
S06-011	1040	
S06-013	2720	13.7
S06-014	24.8	

# ECC RESULTS ALLEY 6

SECTION NUMBER	RESULTS MG/KG
S006 0104	58.9
S006 0203	157
S006 0303	70.1
S006 0402	54.6
S006 0502	17.1
S006 0601	202
S006 0702	9.7
S006 0801	234
S006 0902	8.6
S006 1001	222
S006 1103	13
S006 1203	107
S006 1302	244
S006 1402	37.8
S006 1502	20.3
S006 1601	167
S006 1701	429
S006 1801	216
·	



#### **ALLEY #7.5**

Action Date: May 12, 1994
Loadout: May 20, 1994
Restoration Begins: June 23, 1994
Restoration Completed: June 24, 1994

- Visual contamination was excavated yielding an estimated 240 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 160 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal. Total excavation ranged about 2-1/2 to 3 feet.
- ► Tarring and chipping activities were completed during the week of September 4, 1994.
- Due to sewer and gas lines running the length of the alley, excavation was cautious and a substantial amount of hand work was necessary. No incidents.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer
  - John Deere 444 Loader
  - JCB 214 Backhoe
  - Komatsu PC 200 Trackhoe
  - Bobcat 753
  - 10 Ton Smooth Drum Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Metro East Sand
    - Stone

- L. Wolf Co.
  - Rock
  - Tar Chip
- Quantity Summaries:
  - See Figure AN.1
- Verification Analytical:
  - See Figure AN.2

#### **QUANTITY SUMMARY**

### **SITE NAME** ALLEY 7.5

#### **SUB CONTRACTOR H. WOLFE**

SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
7.5	240	162	259.1	100.17		_			

## OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

**SITE NAME: ALLEY 7.5** 

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S07.5-001	8510	1.8
\$07.5-002	279	
S07.5-004	3980	5.7
\$07.5-005	655	
S07.5-007	1590	0.34
S07.5-008	411	
S07.5-010	1200	1.9
S07.5-011	157	
S07.5-013	624	0.18
S07.5-014	127	

# ECC RESULTS ALLEY 7.5

SECTION NUMBER	RESULTS MG/KG
S007.5 0103	40.2
S007.5 0203	5.8
S007.5 0302	195
S007.5 0402	7.2
S007.5 0502	7.5
S007.5 0602	7.9
S007.5 0703	7.2
S007.5 0802	32.3
S007.5 0902	124
S007.5 1002	359
S007.5 1102	5.6
S007.5 1202	289

256 1

SAMPLES WERE STAGGERD DUE TO NOT BEING ABLE TO PENETRATE THE ASPHALT

HEAVY BRUSH ON RIGHT

SITE MAP ALLEY 7.5

GRANITE CITY ARANTE CITY, LLINOIS

METALDIOR LICACE

USACE OMAHA, NEBRASKA



Drawn By: D. KROSKE	Checked By:
Date:	Approved By:
8-19-93	GLH
Scale:	Drawing No:
N.T.S.	ALLEY7_5

#### ALLEY #65

Action Date: May 13, 1994
Loadout: May 18, 1994
Restoration Begins: May 26, 1994
Restoration Completed: May 27, 1994

Alley #65 ran along railroad right of way. The end of the alley nearest Abbott Street angled toward and away from the tracks before meeting the street; therefore, the railroad required a signed access agreement before allowing completion of this portion. That is why the alley was done in two parts.

#### PART I

Visual contamination was excavated yielding an estimated 160 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. Total excavation ranged about 2 to 2-1/2 feet, with spots a bit deeper due to slag deposits from original backfill.

#### PART II

Action Date:

Loadout:

Restoration Begins:

Restoration Completed:

July 19, 1994

July 23, 1994

July 23, 1994

- Because this portion of the alley ran so close to the railroad tracks, an access agreement was required. A railroad flagman was also required to be present during excavation activities.
- Visual contamination was excavated yielding an estimated 57 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. There was no special waste. Excavation ranged about 2 to 2-1/2 feet in depth.
- Equipment utilized during excavation:
  - Komatsu WA180 Loader
  - John Deere 444 Loader
  - JCB 214 Backhoe
  - Komatsu PC 90 Trackhoe
  - John Deere 310 Backhoe

- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
  - L. Wolfe Co.
    - Stone
- Quantity Summaries:
  - See Figure AO.1
- Verification Analytical:
  - See Figure AO.2

QUANTILY SUMMARY

### SITE NAME ALLEY 65

### **SUB CONTRACTOR H. WOLFE**

SITE#	HAZ CU YD	SPEC CU YD CA	-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD BACKFI	LL ROCK
65	168		16.21	57.31				227.95 TON

# OHM CORPORATION PROJECT 13407

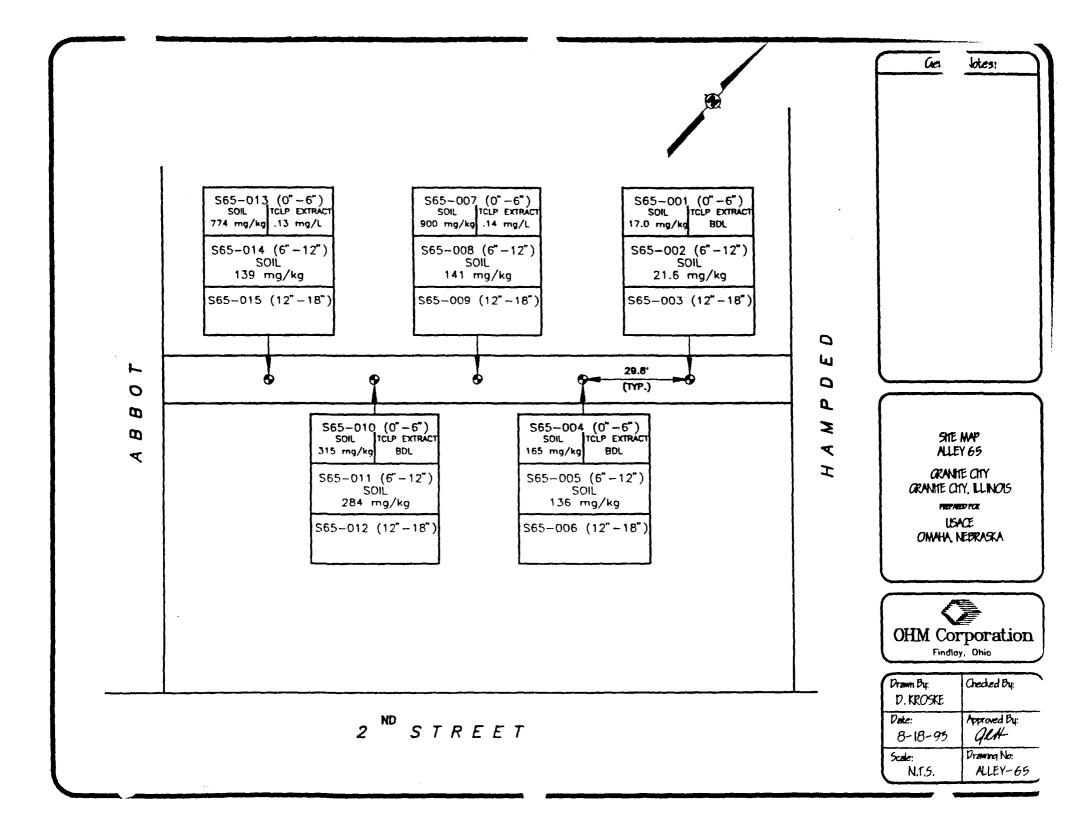
### PRE-CHARACTERIZATION SAMPLING RESULTS

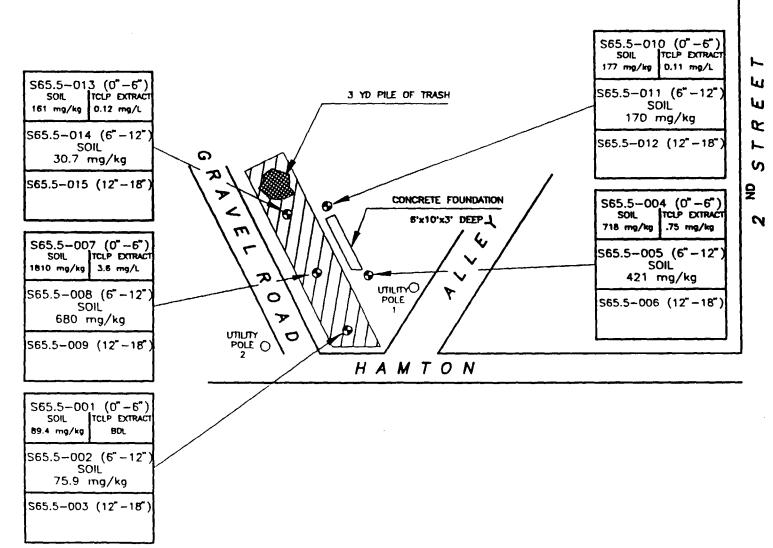
**SITE NAME:** ALLEY 65

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S65-001	17	BDL
S65-002	21.6	
S65-004	165	BDL
S65-005	136	
S65-007	900	0.14
S65-008	141	
S65-010	315	BDL
S65-011	284	
S65-013	774	0.13
S65-014	139	

# ECC RESULTS ALLEY 65

SECTION NUMBER	RESULTS MG/KG
S065 0101	135 .
S065 0201	52.5
S065 0301	119
S065 0401	98.5
S065 0501	331 '
S065 0601	224
S065 0701	56.2
S065 0801	78.8
S065 0901	55.4





Cic Notes: DISTANCES: SAMPLE POLE POLE POINT 1-3 78.5 80.51 79.5 **a**0. 87' 7-9 83. 10-12 95' 98.5 13-15 109 98.

> SHE MAP LOT 65.5 GRANITE CITY GRANITE CITY, LLINOIS HEPMED FOR LISACE OMAHA, NEDRASKA



Drawn By: D. KROSKE	Checked By:
Date: 8-20-93	Approved By:
5 <del>cale:</del> N.1,5.	Drawing No: LO165.5

#### APPENDIX AP: Alley #65.5

Action Date: May 14, 1994
Loadout: May 18, 1994
Restoration Begins: June 10, 1994
Restoration Completed: June 13, 1994

- Although termed "Alley", #65.5 actually looked like an old, filled in subgrade loading dock adjacent to alley #65. It also appeared that debris had acummulated in the area over time.
- The dock area was excavated at the slope and grade it was originally constructed. The deep end of the slope ran against a concrete wall and went about 6 feet deep. Much heavy slag was encountered during excavation. At this depth OHM was directed by USACE to backfill.
- Visual contamination was excavated yielding an estimated 144 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- No special waste was handled.
- Tarring and chipping was not done on this site per USACE.
- Equipment utilized during excavation:
  - John Deere 444 loader
  - JCB 214 Backhoe
  - Komatsu WA180 Loader
- Subcontractors:
  - \*AWS Haulers
    - Hauled Hazardous Waste
  - \*Metro East
    - Stone

Quantity Summaries:

- \*See Figure AP.1
- Verification Analytical:
  - \*See Figure AP.2

Alley 65.5 was not sampled for confirmation due to the fact that excavation was stopped due to depth of 6' that was reached. OHM was directed to stop excavation by USACE.

### QUANTITY SUMMARY

## **SITE NAME** ALLEY 65.5

### SUB CONTRACTOR

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
65.5	144								153.65

# OHM CORPORATION PROJECT 13407

### PRE-CHARACTERIZATION SAMPLING RESULTS

**SITE NAME: ALLEY 65.5** 

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S65.5-001	89.4	BDL
S65.5-002	75.9	
S65.5-004	718	0.11
S65.5-005	421	
\$65.5-007	1810	3.6
S65.5-008	680	
S65.5-010	177	0.11
S65.5-011	170	
\$65.5-013	161	0.12
S65.5-014	30.7	

ALLEY 65.5 WAS NOT SAMPLED FORCONFIRMATION DUE TO THE FACT THAT EXCAVATION WAS STOPPED DUE TO DEPTH OF 6' THAT WAS REACHED. OHM WAS DIRECTED TO STOP EXCAVATION BY USACE.

#### **ALLEY #62.5**

Action Date: May 14, 1994
Loadout: June 14, 1994
Restoration Begins: June 17, 1994
Restoration Completed: June 22, 1994

- Visual contamination was excavated yielding an estimated 176 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 72 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal. The excavation depth ranged from about three feet, with one area down to four feet on the Granville Street end of the alley, due to deposits of lead slag material. Construction activities were completed without interference.
- Tar and chip was not done on this alley because it is on a railroad right-ofway, per USACE.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer (Rental).
  - JCB 214 Backhoe (Rental).
  - John Deere 444 Loader (Rental).
  - Bobcat 753 Skid Steer Loader (Rental).
- Subcontractors:
  - Atlantic Waste Services
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Metro East Sand
    - Stone
- Quantity Summaries
  - See Figure AQ.1

- ► Verification Analytical
  - See Figure Q.2

### **QUANTILY SUMMARY**

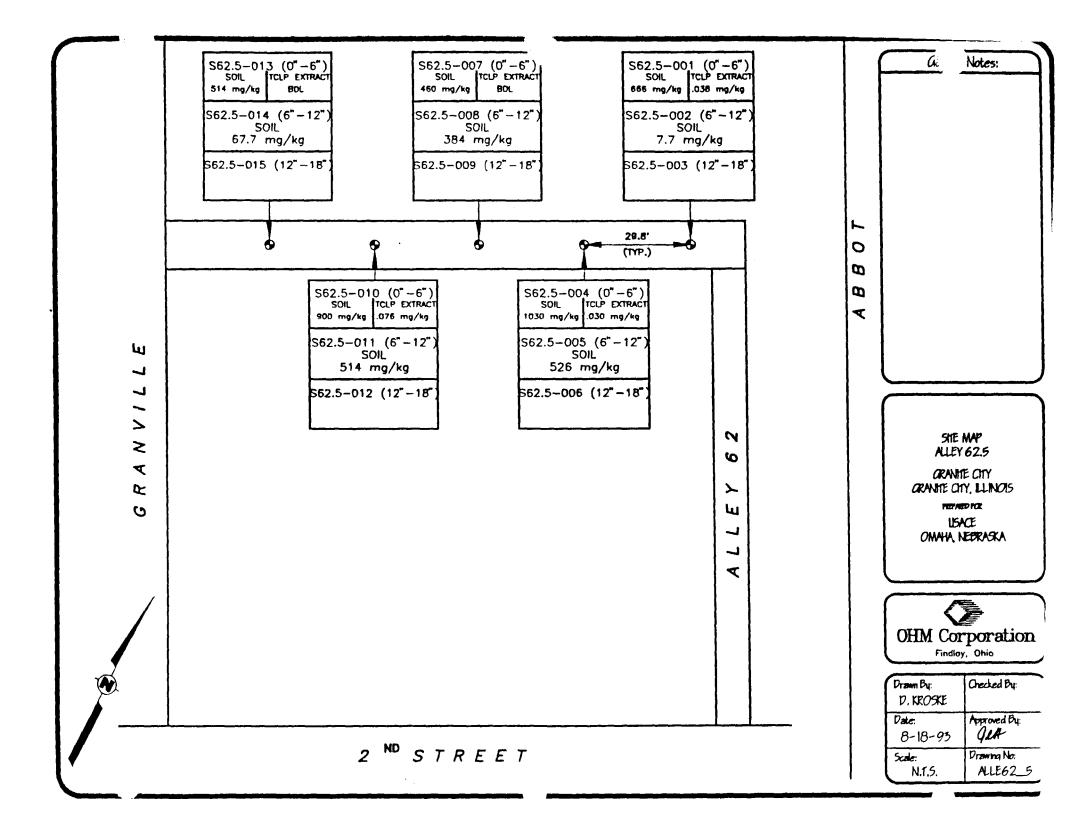
#### **SITE NAME** ALLEY 62.5

#### **SUB CONTRACTOR H. WOLFE**

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
62.5	175.9	72							268.72

# ECC RESULTS ALLEY 62.5

SECTION NUMBER	RESULT MG/KG	SECTION NUMBER	RESULTS MG/KG
S062.5-0101 S062.5-0201	167		
S062.5-0201	348		
S062.5-0302	22		
S062.5-0402	104		
S062.5-0501	320		
3062.3-0301	320		
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#### **ALLEY #13**

Action Date: May 16, 1994
Loadout: June 22, 1994
Restoration Begins: June 24, 1994
Restoration Completed: June 29, 1994

- Visual contamination was excavated yielding an estimated 288 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 108 cubic yards of special waste, which was shipped to Laidlaw-Roxanna in Edwardsville, IL for disposal. Total excavation ranged from two feet to four feet at the Meridocia Street end of the alley due to lead slag material. A buried phone line was also damaged at this end of the alley, which was repaired the next day.
- Tarring and chipping of this alley were completed during the week of September 4, 1994.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer (Rental).
  - JCB 214 Backhoe (Rental).
  - John Deere 444 Loader (Rental).
  - Ingersol-Rand 10 ton Smooth Drum Roller (Rental)

#### Subcontractors:

- Atlantic Waste Services
  - Hauled Hazardous Waste
- Cunningham Trucking Co.
  - Hauled Special Waste
- Laidlaw-Roxanna
  - Special Waste Disposal.
- Metro East Sand
  - Stone
- L. Wolf Co.
  - Tar & Chip Activities

- ► Quantity Summaries:
  - See Figure AR.1
- Verification Analytical:
  - See Figure AR.2

#### **QUANTITY SUMMARY**

## SITE NAME ALLEY 13

## **SUB CONTRACTOR H. WOLFE**

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
13	288	108	283.59	337.74					

## OHM CORPORATION PROJECT 13407

### **PRE-CHARACTERIZATION SAMPLING RESULTS**

**SITE NAME:** ALLEY 13

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S13-001	12000	4.3
S13-002	241	
S13-004	363	0.1
S13-005	35.3	
S13-007	486	0.11
S13-008	425	
S13-010	40.5	BDL
S13-011	40.3	
S13-013	6170	10.3
S13-014	1120	

# ECC RESULTS ALLEY 13

SECTION NUMBER	RESULTS MG/KG
S013 0101	170
S013 0201	144
S013 0301	151
S013 0401	42.5
S013 0502	40
S013 0602	41
S013 0701	24.4
S013 0802	46
S013 0901	229
S013 1002	29
S013 1102	19
S013 1201	13.5
S013 1301	45.3
S013 1401	11.1
S013 1501	27.5
S013 1602	80
S013 1701	324
S013 1801	136

KENTEN INTERNAL



Action Date: May 17, 1994
Loadout: June 13, 1994
Restoration Begins: June 16, 1994
Restoration Completed: July 12, 1994

Lawn Watering: July 12 to August 18, 1994

▶ Visual contamination was excavated yielding an estimated 228 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.

- ► The remaining excavation yielded an estimated 144 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 1 1/2 to 2 feet in depth.
- ▶ Within the excavation depth, OHM crews encountered and broke the house sewage and water services. The water service line was encountered at about 8" subgrade. The damaged portion of the sewer line was in an advanced state of deterioration. Both were repaired by an emergency plumbing service.
- During the restoration phase, backfill was brought in from the alley in back of the property. A truck driver had raised his bed to dump and pulled forward before lowering his bed. When he pulled forward, he damaged the electrical service to the house in the back of the property. This was repaired, also a sidewalk panel in front of the lot on Market Street that was damaged during construction activities was repaired.
- During and after sod installation, OHM crews watered the sod until it was stable.
- Equipment utilized during excavation:
  - 753 Bobcat
  - JCB 214 Backhoe
  - John Deere 444 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill

- Cunningham Haulers
  - Special Waste
- L. Wolfe Co.
  - Restoration
- Quantity Summaries:
  - See Figure AS.1
- ► Verification Analytical:
  - See Figure AS.2

### **QUANTITY SUMMARY**

## SITE NAME MARKET

#### **SUB CONTRACTOR H. WOLFE**

SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	<b>CA-6 TONS</b>	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
1217	228	144					SOD	6 LOADS	

## OHM CORPORATION PROJECT 13407

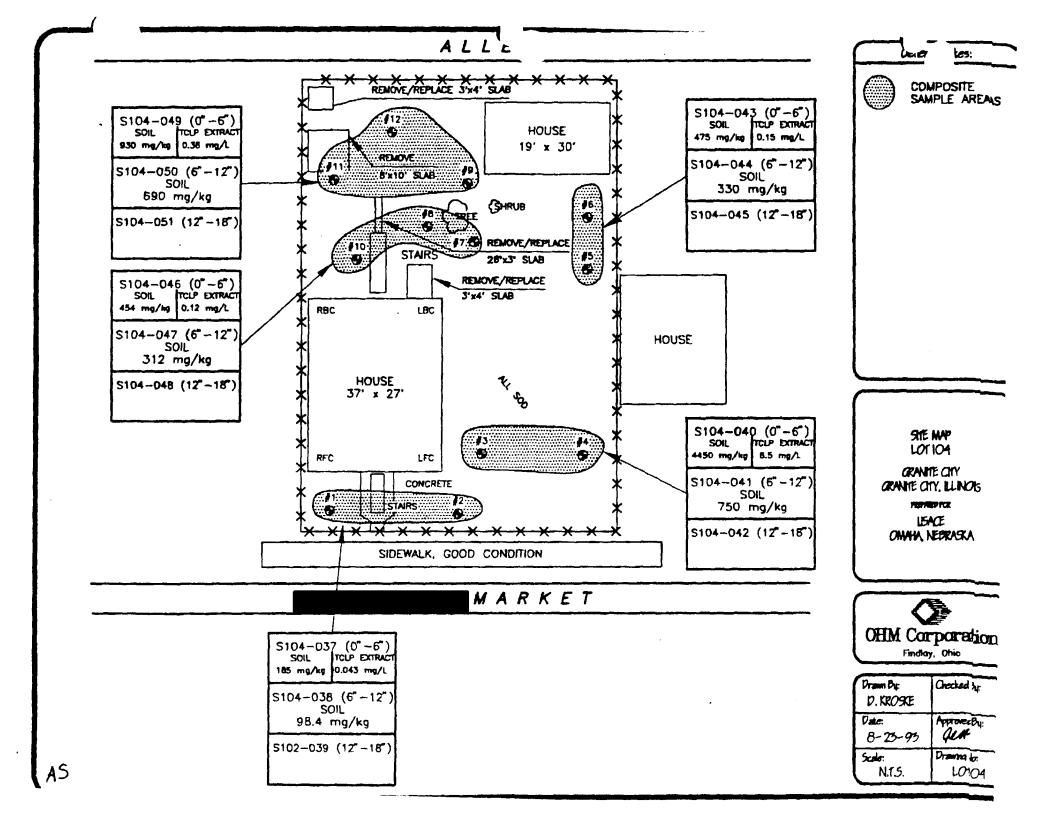
### PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: MARKET

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S104-037	185	0.043
S104-038	98.4	
S104-040	4450	6.5
\$104-041	750	
S104-043	475	0.15
S104-044	330	
S104-046	454	0.12
S104-047	312	
S104-049	930	0.38
S104-050	690	

# ECC RESULTS MARKET

SECTION NUMBER	RESULTS MG/KG
S1217 0102	242
S1217 0202	380
S1217 0302	39.6
S1217 0403	19.3
S1217 0502	154
S1217 0601	249
S1217 0702	320
S1217 0802	194
S1217 0902	234





**Action Date:** 

May 17, 1994

Loadout:

June 14, 1994

**Restoration Begins:** 

June 21, 1994

**Restoration Completed:** 

July 19, 1994

Watered:

July 19 to August 9, 1994

- Visual contamination was excavated yielding an estimated 336 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- The remaining excavation yielded an estimated 36 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 6" to 12" in depth.
- During excavation activities, the cable TV line running from the house was broken.
- ► After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - PC220 Trackhoe
  - John Deere 310D Backhoe
  - John Deere 444 Loader
  - 15 KW Generator
  - 6.5 KW Generator
  - 853 Bobcat
  - 753 Bobcat
  - Ingerson 7 1/2 Ton Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Backfill
  - Cunningham Haulers
    - Special Waste

- L. Wolfe
  - Restoration
- C. Grantham
  - Stone
- Quantity Summaries:
  - See Figure AT.1
- Verification Analytical:
  - See Figure AT.2

# SITE NAME WATSON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
214	336	36			21 LOADS		SEED	24 LOADS	3 LOADS

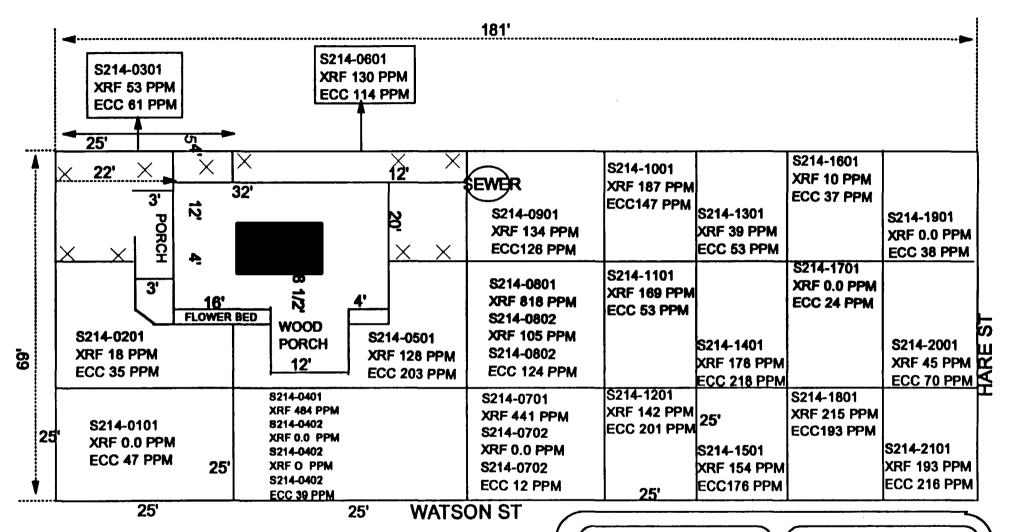
### 'RE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME WATSON

SAMPLE	TOTAL LEAD	
NUMBER	MG/KG	MG/L
S214-001C	270	BDL
\$214-002C	23	
S214-004C	252	0.25
S214-005C	136	
S214-007C	266	BDL
S214-008C	45.9	
S214-010C	202	BDL
S214-013C	221	
S214-014C	40.4	BDL
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# ECC RESULTS WATSON

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S214-0101	47		
S214-0201	35		
S214-0301	61		
S214-0402	38.7		
S214-0501	203		
S214-0601	114		
S214-0702	12.3		
\$214-0802	124		
S214-0901	126		
S214-1001	201		
S214-1101	177		
S214-1201	147		
S214-1301	53		
S214-1401	218		
S214-1501	176		
S214-1601	37		
S214-1701	24		
S214-1801	193		
S214-1901	38		
S214-2001	70		
S214-2101	216		
			1





TOTAL DIMENSIONS 69' X 181'



Drawn By: SLO	Checked By:
Date: 6/15/94	Approved By:
Scale: NTS	Drawing No:



Action Date: May 19, 1994
Loadout: June 16, 1994
Restoration Begins: June 23, 1994
Restoration Completed: July 15, 1994

Watered: July 15, 1994 to August 10, 1994

- ▶ Visual contamination was excavated yielding an estimated 36 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 144 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 12" in depth.
- ► After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - Komatsu PC90 Excavator
  - John Deere 444 Loader
  - 753 Bobcat
  - JCB 214 Backhoe
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe
    - Restoration
- Quantity Summaries:
  - See Figure AU.1
- Verification Analytical:
  - See Figure AU.2

HILL

SITE NAME

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
209	36	144					SEED	16 LOADS	2 LOADS

# RE-CHARACTERIZATION SAMPLING RESULTS

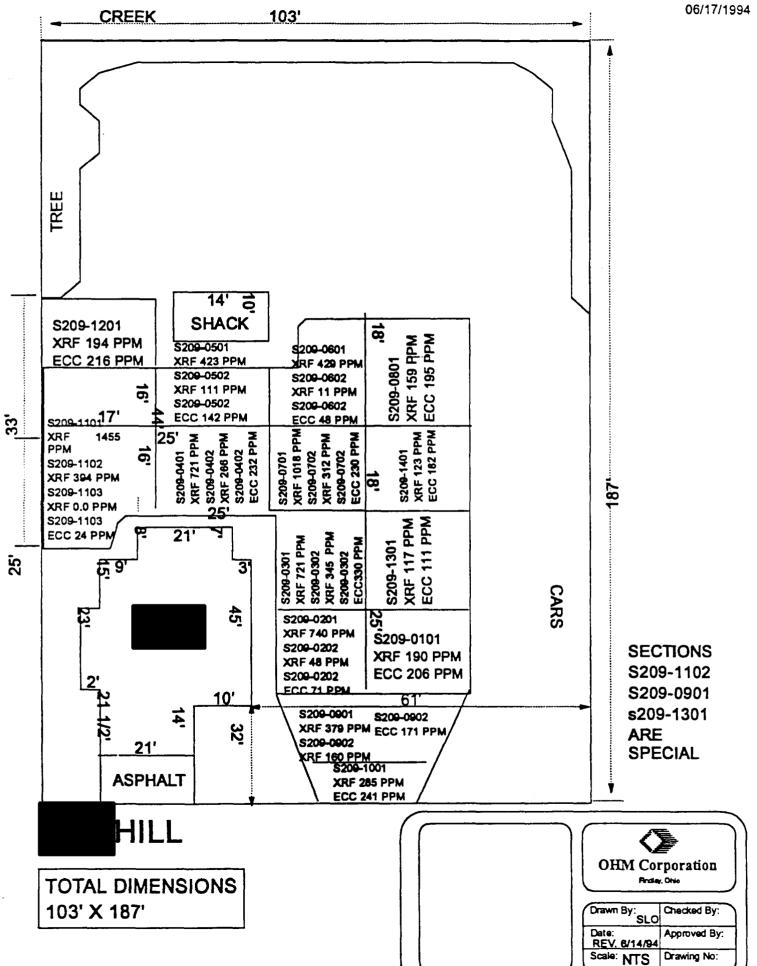
# SITE NAME HILL

CAMPLE	TOTAL LEAD	TOLDIEAD
SAMPLE	TOTAL LEAD	
NUMBER	MG/KG	MG/L
S209-001C	161	BDL
S209-002C	71.9	
S209-004C	521	BDL
S209-005C	146	
S209-007C	449	BDL
S209-008C	42.3	
S209-010C	30.5	BDL
S209-011C	11	
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# ECC RESULTS HILL

SECTION NUMBER	RESULTS MG/KG
S209 0101	206
S209 0202	71
S209 0302	330
S209 0402	232
S209 0502	142
S209 0602	48.2
S209 0702	230
S209 0801	195
S209 0902	171
S209 1001	241
S209 1103	23.5
S209 1201	216
S209 1301	111
S209 1401	182





# WATSON STREET

Action Date:

May 20, 1994

Loadout:

June 10, 1994

**Restoration Begins:** 

June 16, 1994

**Restoration Completed:** 

July 19, 1994

Watered:

July 19, 1994 to August 10, 1994

- ► Visual contamination was excavated yielding an estimated 180 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ▶ The remaining excavation yielded an estimated 54 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 6" to 12" in depth.
- During excavation activities, a sewer service line going from the house to the septic tank was damaged. This was repaired.
- After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - John Deere 3100 Backhoe
  - John Deere 444 Loader
  - 753 Bobcat
  - JCB 214 Backhoe
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe
    - Restoration
  - Metro East
    - Backfill

- Quantity Summaries:
  - See Figure AV.1
- Verification Analytical:
  - See Figure AV.2

# SITE NAME WATSON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
210	180	54		13 LOADS		SEED	3 LOADS	3 LOADS

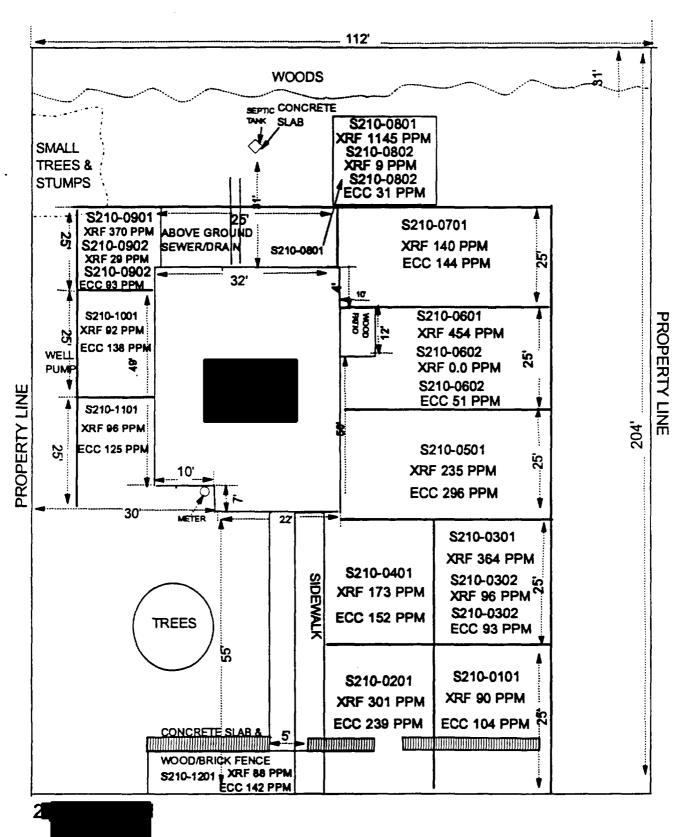
### **RE-CHARACTERIZATION SAMPLING RESULTS**

SITE NAME: WATSON

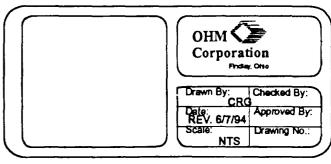
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S210-001C	67.9	BDL
S210-002C	25.4	DDL
S210-002C	111	BDL
S210-004C		BUL
S210-005C	50.2	
S210-007C	374	0.26
S210-008C	71.3	
S210-010C	937	0.61
S210-011C	50.2	
S210-013C	93.3	BDL
S210-014C	21	
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# ECC RESULTS WATSON

SECTION NUMBER	RESULTS MG/KG
S210 0101	104
S210 0201	239
S210 0303	93
S210 0401	152
S210 0501	296
S210 0602	51
S210 0701	144
S210 0802	31
S210 0902	93
S210 1001	138
S210 1101	125
S210 1201	142



TOTAL DIMENSIONS 112' X 204'



#### **ALLEY #19**

Action Date: May 24, 1994
Loadout: June 22, 1994
Restoration Begins: June 27, 1994
Restoration Completed: June 29, 1994

- Visual contamination was excavated yielding an estimated 264 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation yielded an estimated 54 cubic yards of special waste, which was shipped to Laidlaw Waste Systems in Roxanna, IL for disposal. Total excavation ranged about 2 to 2-1/2 feet. No incidents.
- Tarring and chipping activities were completed on the alley during the week of September 4, 1994.
- Equipment utilized during excavation:
  - Komatsu D37 Bulldozer
  - John Deere 444 Loader
  - John Deere 370 Backhoe
  - 10 Ton Smooth Clade Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Cunningham Trucking Co.
    - Hauled Special Waste
  - Laidlaw-Roxanna
    - Special Waste Disposal
  - Metro East
    - Stone
  - L. Wolfe Co.
    - Tar Chip
- Quantity Summaries:
  - See Figure AW.1

- Verification Analytical:
  - See Figure AW.2

# **SITE NAME** ALLEY 19

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
19	264	54	242.58	210.56				,	

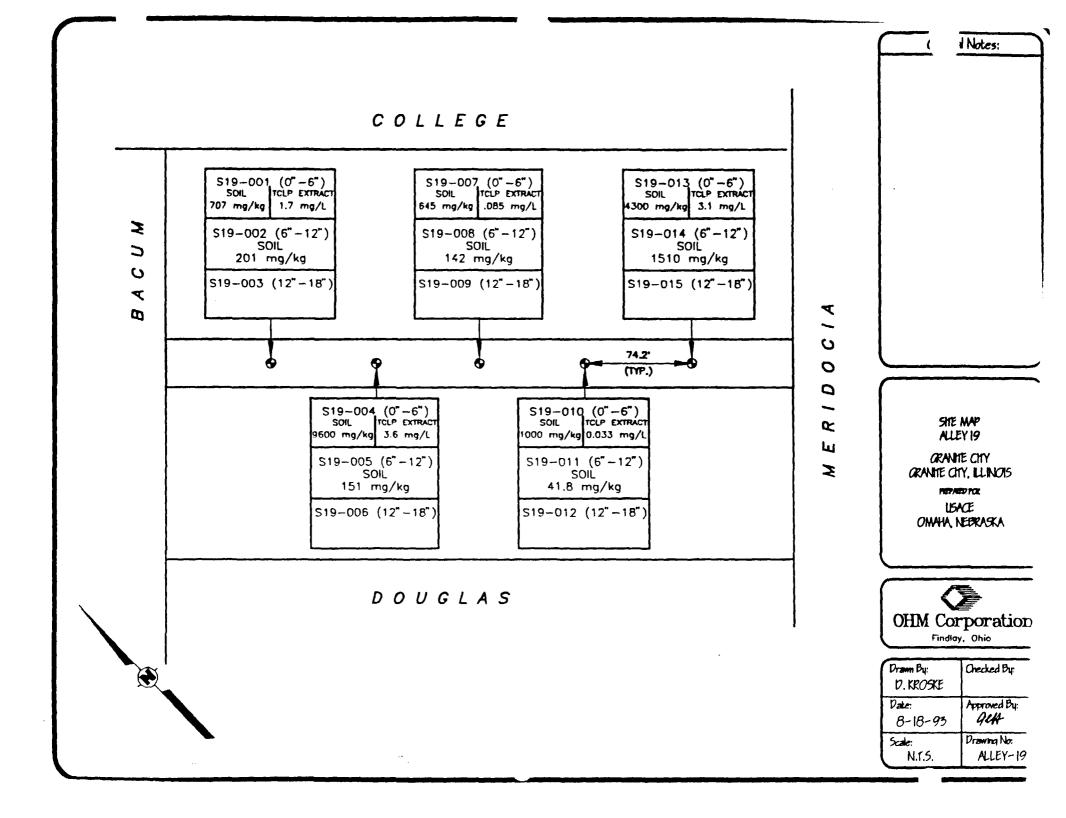
# PRE-CHARACTERIZATION SAMPLING RESULTS

**SITE NAME:** ALLEY 19

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S19-001	707	1.7
S19-002	201	
S19-004	9600	3.6
S19-005	151	
S19-007	645	0.085
S19-008	263	
S19-010	1000	0.033
S19-011	41.8	
S19-013	4300	3.1
S19-014	1510	

# ECC RESULTS ALLEY 19

SECTION NUMBER	RESULTS MG/KG
S019 0102	96.6
S019 0202	164
S019 0302	38.5
S019 0401	128
S019 0501	168
S019 0601	102
S019 0701	303
S019 0801	231
S019 0901	223
S019 1002	300
S019 1103	57.6
S019 1202	261
S019 1303	122
S019 1402	136
S019 1502	17.1



# HILL STREET

Action Date: May 24, 1994 Loadout: June 9, 1994

Restoration Begins: June 23, 1994 Restoration Completed: June 15, 1994

Watered: July 15 to August 18, 1994

▶ Visual contamination was excavated yielding an estimated 96 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.

- ▶ No special waste was excavated. Excavation averaged 6" to 1 foot in depth.
- ► After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - 753 Bobcat
  - Komatsu PC-90 Excavator
  - John Deere 644 G Loader
  - John Deere 444 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East Sand
    - Backfill
  - L. Wolfe
    - Restoration
- Quantity Summaries:
  - See Figure AX.1
- Verification Analytical:
  - See Figure AX.2

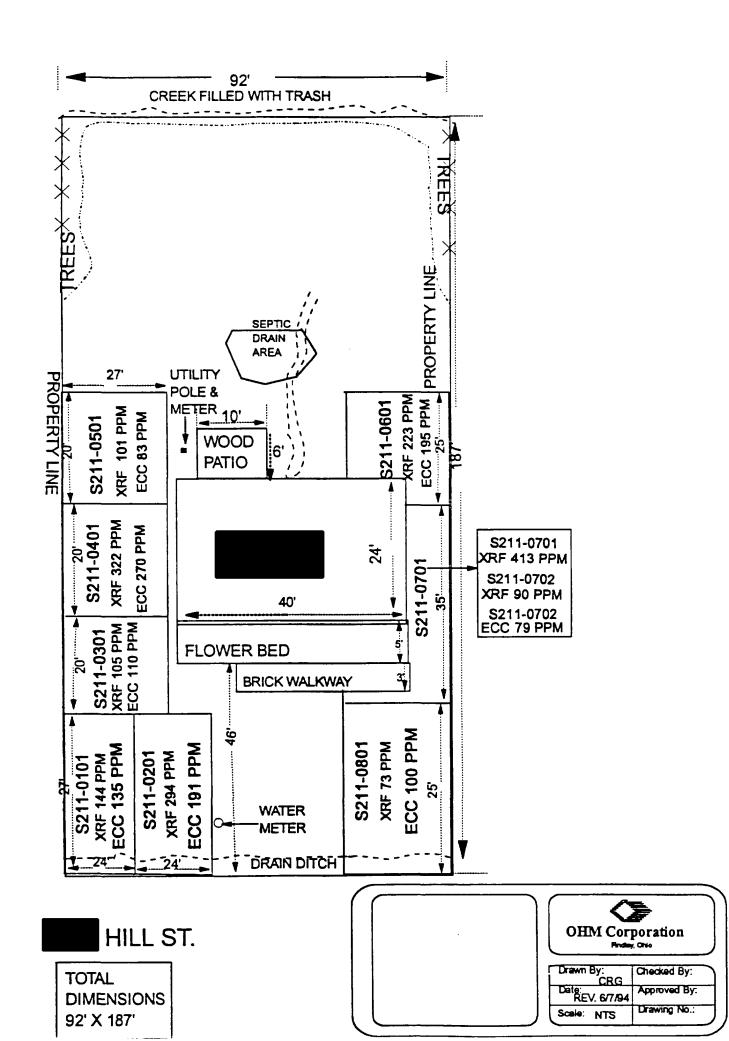
SITE NAME



SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
211	96						SEED	12 LOADS	1 LOAD

# ECC RESULTS HILL

SECTION NUMBER	RESULTS MG/KG
S211 0101	135 •
S211 0201	191
S211 0301	110
S211 0401	270
S211 0501	82.5
S211 0601	195
S211 0801	100 •
S211 0702	79
	·



#### **ALLEY #36.5**

Action Date: May 25, 1994
Loadout: May 25, 1994
Restoration Begins: June 13, 1994
Restoration Completed: June 13, 1994

- Visual contamination was excavated yielding an estimated 24 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. There was no special waste. Total excavation ranged about 1 1/2 to 2 feet.
- Equipment utilized during excavation:
  - JCB 214 Backhoe
  - Komatsu WA-180 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
- Quantity Summaries:
  - See Figure AY.1
- Verification Analytical:
  - See Figure AY.2

## SITE NAME ALLEY 36.5(McKINLEY)

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
36.5	24		14.57						

# PRE-CHARACTERIZATION SAMPLING RESULTS

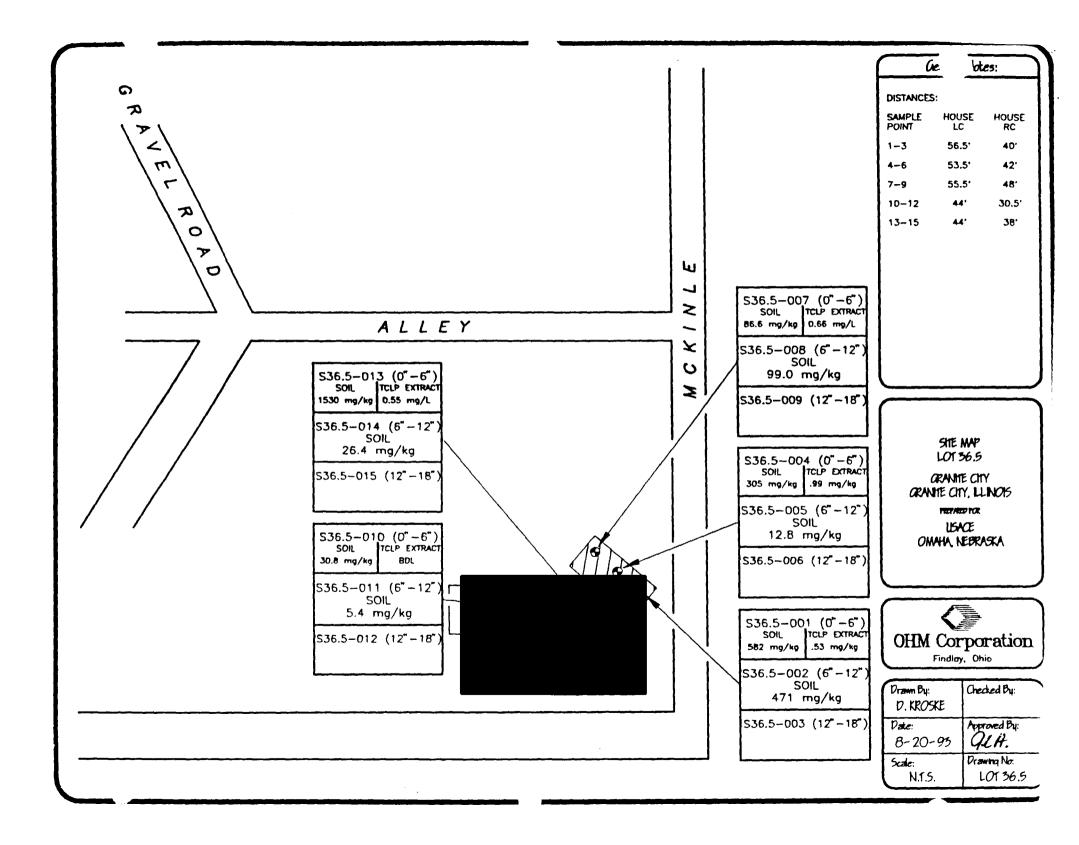
**SITE NAME: ALLEY 36.5** 

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S36.5-001	582	0.53
S36.5-002	471	
S36.5-004	305	0.99
S36.5-005	12.8	
S36.5-007	86.6	0.66
S36.5-008	99	
S36.5-010	30.8	BDL
S36.5-011	5.4	
S36.5-013	1530	0.55
S36.5-014	26.4	
		-

# ECC RESULTS ALLEY 36.5

RESULTS MG/KG
88.2





#### **ALLEY #54.5**

Action Date: June 1, 1994
Loadout: June 15, 1994
Restoration Begins: June 22, 1994

Restoration Completed: June 24, 1994

- The actual site was a shed in the rear of 115 Weber Street. During construction activities, the property owner asked OHM to dismantle the 500 square foot shed. Since the condition of the shed posed a safety hazard, USACE agreed to have OHM take it down. This also helped to expedite completion of the lot.
- Visual contamination was excavated yielding an estimated 48 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization. The remaining excavation and the dismantled shed yielded an estimated 36 cubic yards and was shipped to Laidlaw, Roxanna. Total excavation ranged about 2 to 2 1/2 feet.
- Equipment utilized during excavation:
  - JCB 214 Backhoe
  - 753 Bobcat
  - John Deere 444 Loader
  - 10 Ton Smooth Drum Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
  - Cunningham Haulers
    - Special Waste
- Quantity Summaries:
  - See Figure AZ.1
- Verification Analytical:
  - See Figure AZ.2

## SITE NAME ALLEY 54.5(WEBER)

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
54.5	48	36	14.59						

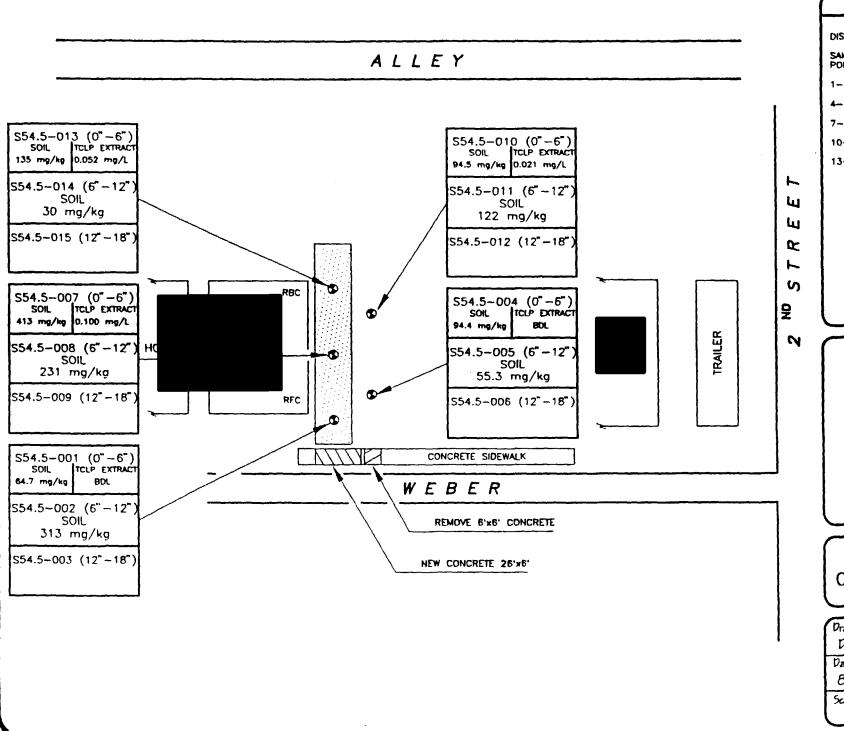
# PRE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: ALLEY 54.5

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S54.5-001	64.7	BDL
S54.5-002	313	
S54.5-004	94.4	BDL
S54.5-005	55.3	
S54.5-007	413	0.1
S54.5-008	231	
S54.5-010	94.5	0.021
S54.5-011	122	
S54.5-013	135	0.052
S54.5-014	30	

# ECC RESULTS ALLEY 54.5

SECTION NUMBER	RESULTS MG/KG
S054.5 0102	7.9
S054.5 0202	263



Ge otes: DISTANCES: HOUSE RFC HOUSE RBC SAMPLE POINT 1-3 7.5 48' 4-6 14.5" 39, 7-9 14" 29. 10-12 30.51 20.5 13-15 36.5 7.

> SHE MAP LOT 54.5 CRANITE CITY CRANITE CITY, LLINOIS METABLE POR LISACE OMAHA, NEBRASKA



Drawn By: D. KROSKE	Checked By:
Date: 8-20-93	Approved By:
Scale: N.T.S.	Drawing No. LO154.5

#### TERRY STREET

**Action Date:** 

June 1, 1994

Loadout:

June 9, 1994

**Restoration Begins:** 

June 16, 1994

**Restoration Completed:** 

July 14, 1994

Lawn Watering:

July 14 to August 10, 1994

- Visual contamination was excavated yielding an estimated 336 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- The remaining excavation yielded an estimated 198 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 1 foot in depth.
- After seed was broadcast and mulched with straw, OHM crews watered until sod was stable.
- Equipment utilized during excavation:
  - 753 Bobcat
  - Komatsu PC220 Trackhoe
  - John Deere 644 G Loader
  - John Deere 444 Loader
  - John Deere 310 Backhoe
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East Sand
    - Backfill
  - L. Wolfe
    - Restoration
  - Cunningham Haulers
    - Special Waste
- Quantity Summaries:
  - See Figure BA.1

- Verification Analytical:
  - See Figure BA.2

### QUANTIT' SUMMARY

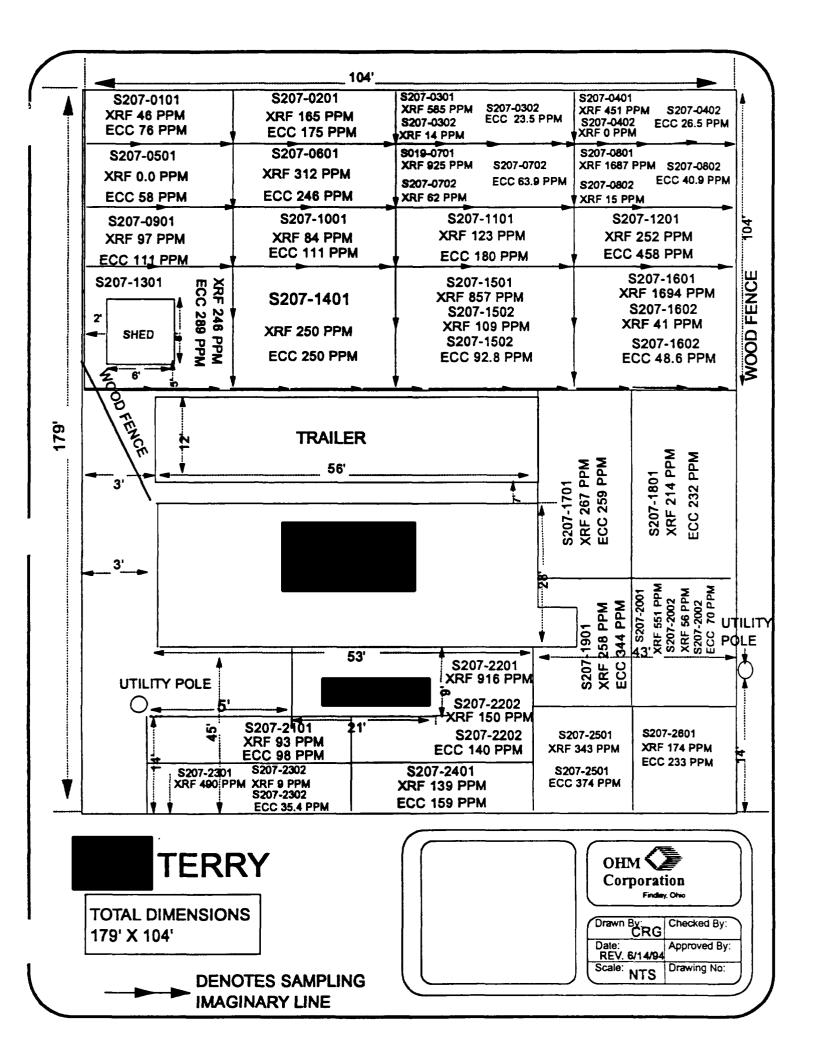
SITE NAME



SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
105	338	198			36 LOADS		SEED	19 LOADS	3 LOADS



SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S207-0101	75.9		
\$207-0201	175		
S207-0302	23.5		
S207-0402	26.5		
S207-0501	58.1		
S207-0601	246		
S207-0702	63.9		
S207-0802	40.9		
\$207-0901	111		
S207-1001	111		
S207-1101	180		
S207-1201	458		
S207-1301	289		
S207-1401	250		
S207-1502	92.8		
S207-1602	40.9		
S207-1701	259		
S207-1801	232		
S207-1901	344		
S207-2002	70		
S207-2101	97.7		
S207-2202	140		
S207-2302	35.4		
\$207-2401	159		
S207-2501	374		
S207-2601	233		





Action Date: June 1, 1994 Loadout: June 14, 1994

**Restoration Begins:** July 11, 1994 **Restoration Completed:** July 25, 1994

Lawn Watering: July 25 to August 17, 1994

 Visual contamination was excavated yielding an estimated 84 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.

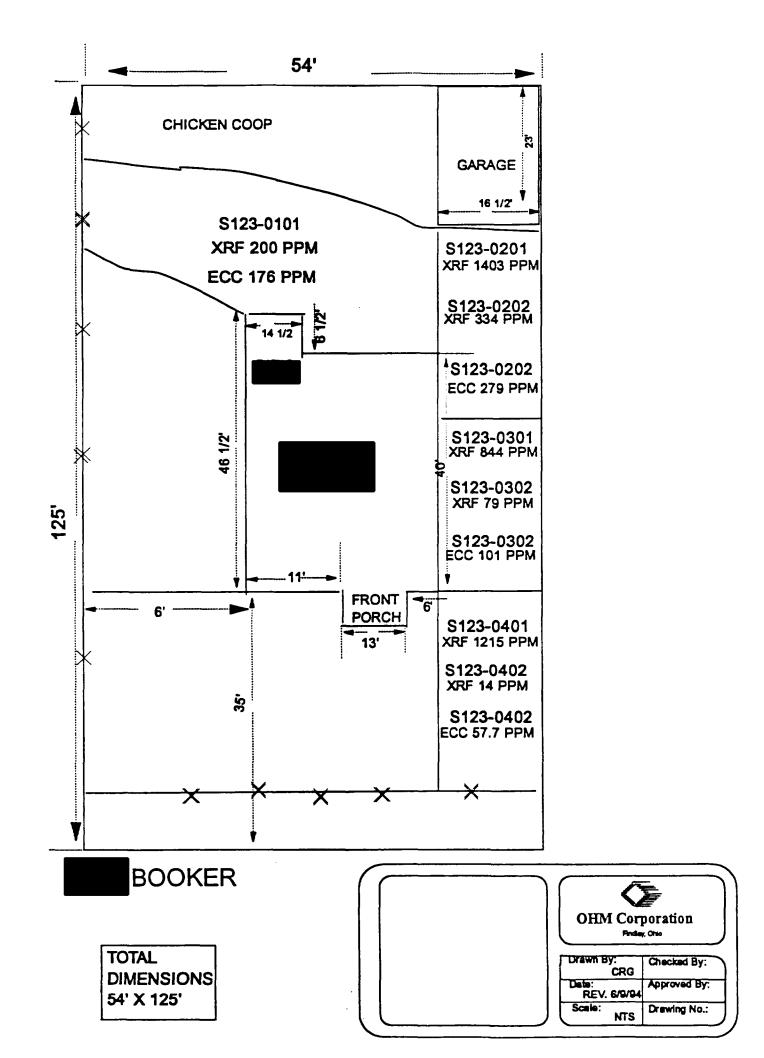
- ► There was no special waste. Excavation averaged 8" to 12" in depth.
- After seed was broadcast and mulched with straw, OHM crews watered until sod was stable.
- Equipment utilized during excavation:
  - 753 Bobcat
  - Komatsu PC90 Trackhoe
  - Komatsu PC220 Trackhoe
  - John Deere 444 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - L. Wolfe
    - Restoration
- Quantity Summaries:
  - See Figure BB.1
- Verification Analytical:
  - See Figure BB.2

### **QUANTITY SUMMARY**

SITE NAME



SITE#	HAZ CU YD	SPEC CU YD	<b>CA-7 TONS</b>	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
123	84	18					SEED	6 LOADS	1 LOAD



### OHM CORPORATION PROJECT 13407

### 'RE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: BOOKER

SAMPLE	TOTAL LEAD	TCLP LEAD					
NUMBER	MG/KG	MG/L					
S123-001C	90.7	BDL					
S123-002C	22.1						
S123-004C	153	BDL					
S123-005C	16.4						
0120-0000	10.4						
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# ECC RESULTS BOOKER

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S123-0101	176		
S12300202	279		
S123-0302	101		
S123-0402	58		

### CARVER STREET

**Action Date:** 

June 2, 1994

Loadout:

June 16, 1994

**Restoration Begins:** 

June 16, 1994

**Restoration Completed:** 

July 18, 1994

Lawn Watering:

July 18 to August 29, 1994

- ▶ Visual contamination was excavated yielding an estimated 48 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- The remaining excavation yielded 18 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 6" to 8" in depth.
- Equipment utilized during excavation:
  - 753 Bobcat
  - Case 580K Backhoe
  - John Deere 444 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - L. Wolfe Co.
    - Restoration
  - Cunningham Haulers
    - Topsoil
    - Straw/Seed
- Quantity Summaries:
  - See Figure BC.1
- Verification Analytical:
  - See Figure BC.2

### QUANTIT: JUMMARY

SITE NAME



SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
212	48	18					SEED	7 LOADS	

## OHM CORPORATION PROJECT 13407

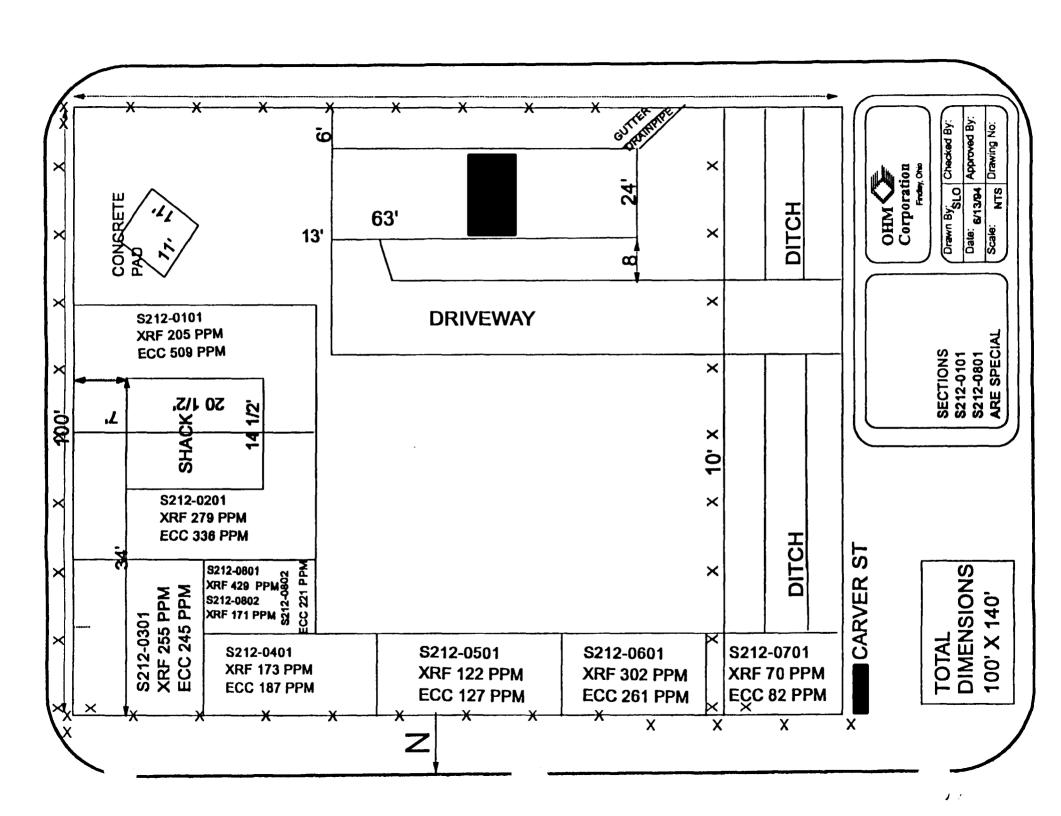
### 'RE-CHARACTERIZATION SAMPLING RESULTS

SITE NAME: ARVER

OITE WATE	1111211	
SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S212-001C	148	BDL
S212-002C	111	
S212-004C	87.9	BDL
S212-004C	37	BDL
\$212-005C \$212-007C	31	DDI
S212-007C	44.4	BDL
S212-008C	52.3	
S212-010C	25.1	BDL
S212-011C	25.9	
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SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S212-0102	68.8		
S212-0201	336		
S212-0301	245		
S212-0401	187		
S212-0501	127		
S212-0601	261		
S212-0701	82		
S212-0802	221		
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Action Date:

Loadout:

June 6, 1994

June 23, 1994

Restoration Begins:

June 24, 1994

Restoration Completed:

June 24, 1994

- The primary area of this lot to be excavated was the entire driveway, from Carver Street to the back of the lot. The original fence, which was comprised of chain link and 6' x 6' wood sheets, was deteriorated but had to be removed due to excavation activities. USACE agreed to replace half of the fence. This was done. In order to remove the fence access was required on the property of 100 Hill Street. During the restoration phase, seed and mulch was put down at the property border to replace the grass.
- Visual contamination was excavated yielding an estimated 108 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation and the fence row yielded an estimated 18 cubic yards of special waste and was shipped to Laidlaw, Roxanna. Excavation averaged 1" to 1 1/2 foot in depth.
- ► After backfilling and compaction of the stone aggregate, no further restoration activities were required.
- Equipment utilized during excavation:
  - 753 Bobcat
  - Komatsu PC220 Trackhoe
  - John Deere 644 G Loader
  - Komatsu 180 Loader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East Sand
    - Backfill
  - Cunningham Haulers
    - Special Waste

- Quantity Summaries:
  - See Figure BD.1
- Verification Analytical:
  - See Figure BD.2

### QUANTITY SUMMARY

SITE NAME CARVER

SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
104	108	18		24 LOADS		SEED	7 LOADS	6 LOADS

## OHM CORPORATION PROJECT 13407

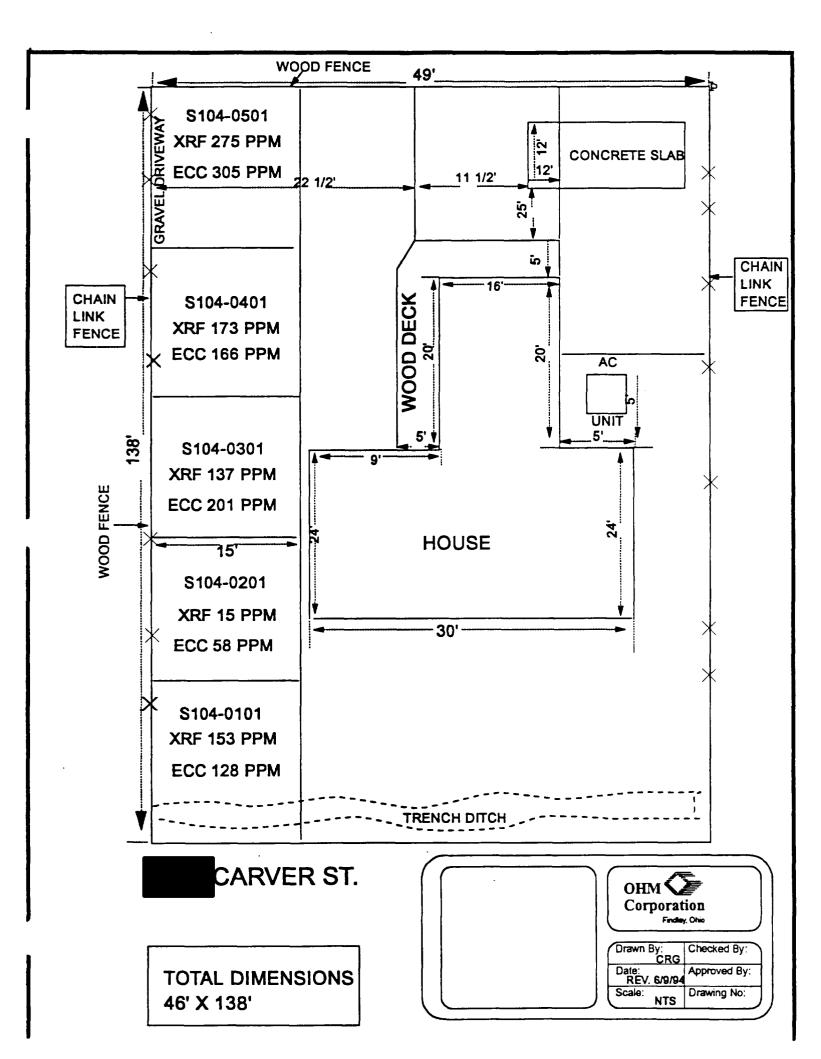
### 'RE-CHARACTERIZATION SAMPLING RESULTS

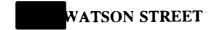
SITE NAME: CARVER

SAMPLE	TOTAL LEAD	TCLP LEAD
NUMBER	MG/KG	MG/L
S104-001C	224	BDL
S104-002C	48.7	
\$104-002C \$104-004C	115	0.25
S104-005C	80.6	
S104-007C	115	BDL
S104-008C	179	
S104-010C	105	BDL
S104-011C	82.2	DDL
0104-0110	VE.E	
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## ECC RESULTS CARVER

SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S104-0101	128		
S104-0201	58.1		
S104-0301	201		
S104-0401	166		
S104-0501	305		
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Action Date: June 6, 1994
Loadout: July 13, 1994
Restoration Begins: July 13, 1994
Restoration Completed: August 1, 1994

**Watered:** August 1, 1994 to August 29, 1994

- Visual contamination was excavated yielding an estimated 747 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► There was no special waste.
- After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- During excavation of this site the sidewalk leading from the house to the parking area out front was broken. This was replaced.
- Equipment utilized during excavation:
  - PC90 Track Excavator
  - John Deere 310D Backhoe
  - John Deere 444 Loader
  - PC150 Track Excavator
  - John Deere 544 Loader
  - Takeuchi TL26 Trackloader
  - Ingerson 7 1/2 Ton Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe
    - Restoration

- Quantity Summaries:
  - See Figure BE.1
- Verification Analytical:
  - See Figure BE.2

### **QUANTITY SUMMARY**

SITE NAME

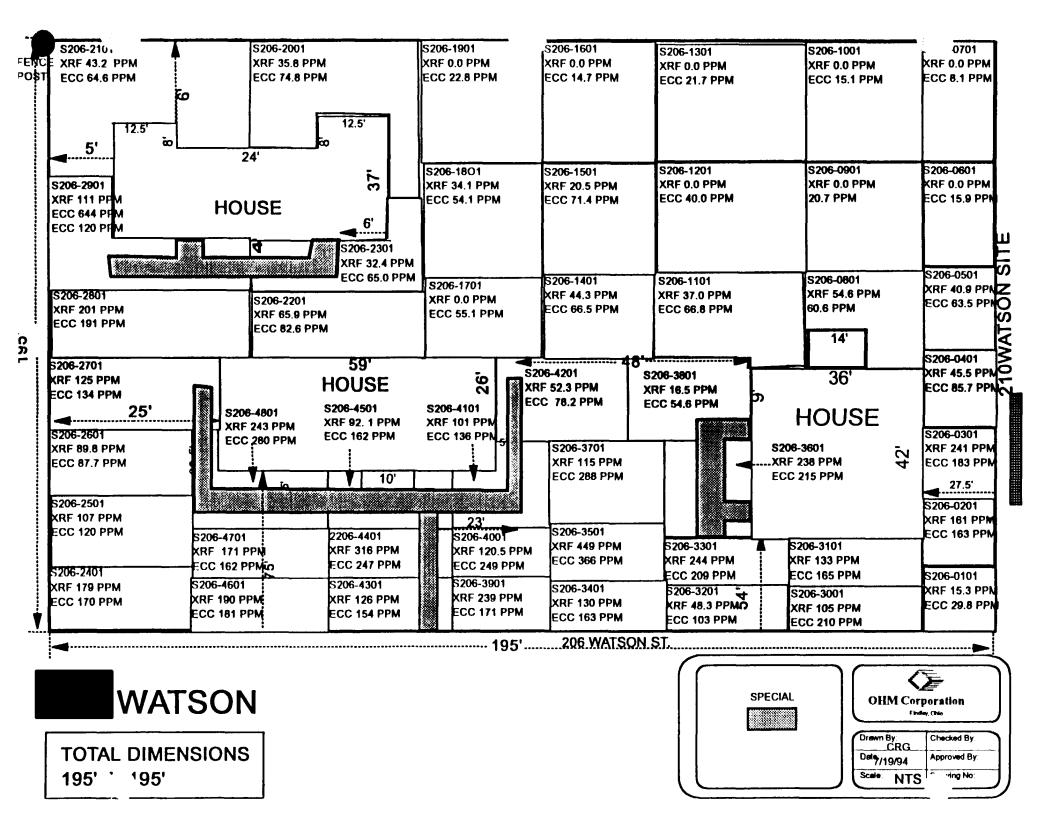


SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
206	747		62.1	83 LOADS		SEED	20 LOADS	4 LOAD



SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S206-0101	29.8		
S206-0102	163		
S206-0301	183		
S206-0401	85.7		
S206-0501	63.5		
S206-0601	15,9		
S206-0701	8.1		
S206-0801	60,6		
S206-0901	20.7		
S206-1001	15.1		
S206-1101	66.8		
S206-1201	40		
S206-1301	21.7		
S206-1401	66.5		
S206-1501	71.4		
S206-1601	14.7		
S206-1701	55.1		
S206-1801	54.1		
S206-1901	22.8		
S206-2001	74.8		
S206-2101	64.6		
S206-2201	82.6		
S206-2301	65		
S206-2401	170		
S206-2501	120		
S206-2601	87.7		
S206-2701	134		
S206-2801	191		
S206-2901	120		
S206-3001	210		
S206-3101	165		
S206-3201	103		
S206-3301	209		
S206-3401	163		
S206-3501	366		
S206-3601	215		<del>_</del>
S206-3701	288		
S206-3801	54.6		
S206-3901	171		***
S206-4001	249		
S206-4101	136		
S206-4201	78.2		
S206-4301	154	<del> </del>	
S206-4401	247		
S206-4501	162		
S206-4601	181		
S206-4701	162		
S206-4701 S206-4801	280		
3200-4001	200	<u> </u>	<u> </u>

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**Action Date:** 

July 6, 1994

Loadout:

July 22, 1994

**Restoration Begins:** 

July 22, 1994

**Restoration Completed:** 

August 8, 1994

Watered:

August 8, 1994 to August 29, 1994

- Visual contamination was excavated yielding an estimated 80 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 36 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 6" to 12" in depth.
- ► After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- During excavation of this site, the sidewalk leading from the house to the parking area out front was broken. This was replaced.
- Equipment utilized during excavation:
  - PC90 Track Excavator
  - John Deere 310D Backhoe
  - John Deere 644 Loader
  - PC150 Track Excavator
  - John Deere 544 Loader
  - Takeuchi TL 26 Trackloader
  - 753 Bobcat
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe
    - Restoration

- Quantity Summaries:
  - See Figure BF.1
- Verification Analytical:
  - See Figure BF.2

### QUANTI), SUMMARY

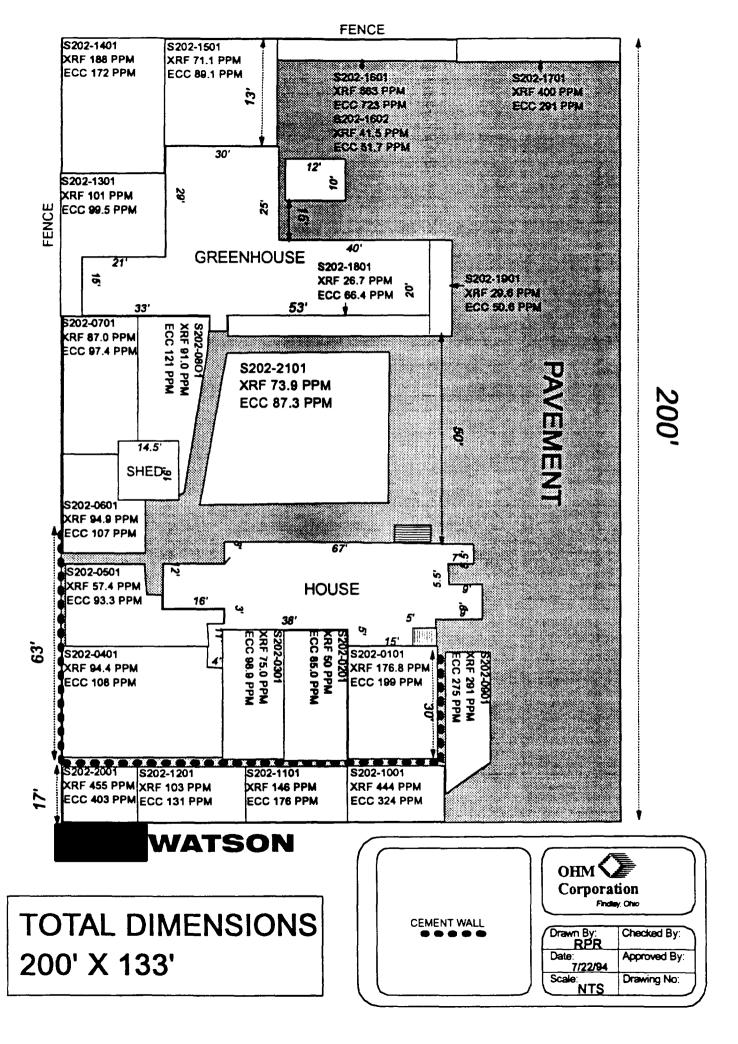
SITE NAME



SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
202	80	36		43.37	10 LOADS		SEED		

# ECC RESULTS watson

SECTION NUMBER	RESULTS MG/KG
S202-0101	199
S202-0201	85
S202-0301	98.9
S202-0401	108
S202-0501	93.3
S202-0601	107
S202-0701	97.4
S217-0801	121
S202-0901	275
S202-1001	324
S202-1101	176
S202-1201	131
S202-1301	99.5
S202-1401	172
S202-1501	89.1
\$202-1602	51.7
S202-1701	291
S202-1801	66.4
S202-1901	50.6
S202-2001	403
S202-2101	87.3





**Action Date:** 

July 6, 1994

Loadout:

July 23, 1994

**Restoration Begins:** 

July 25, 1994

**Restoration Completed:** 

August 8, 1994

Watered:

August 8, 1994 to August 29, 1994

- ▶ Visual contamination was excavated yielding an estimated 172 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 36 cubic yards of special waste, which was shipped to Laidlaw, Roxanna. Excavation averaged 8" to 10" in depth.
- After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - PC90 Track Excavator
  - John Deere 310D Backhoe
  - John Deere 444 Loader
  - Takeuchi TL26 Trackloader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe
    - Restoration
- Quantity Summaries:
  - See Figure BG.1

- ► Verification Analytical:
  - See Figure BG.2

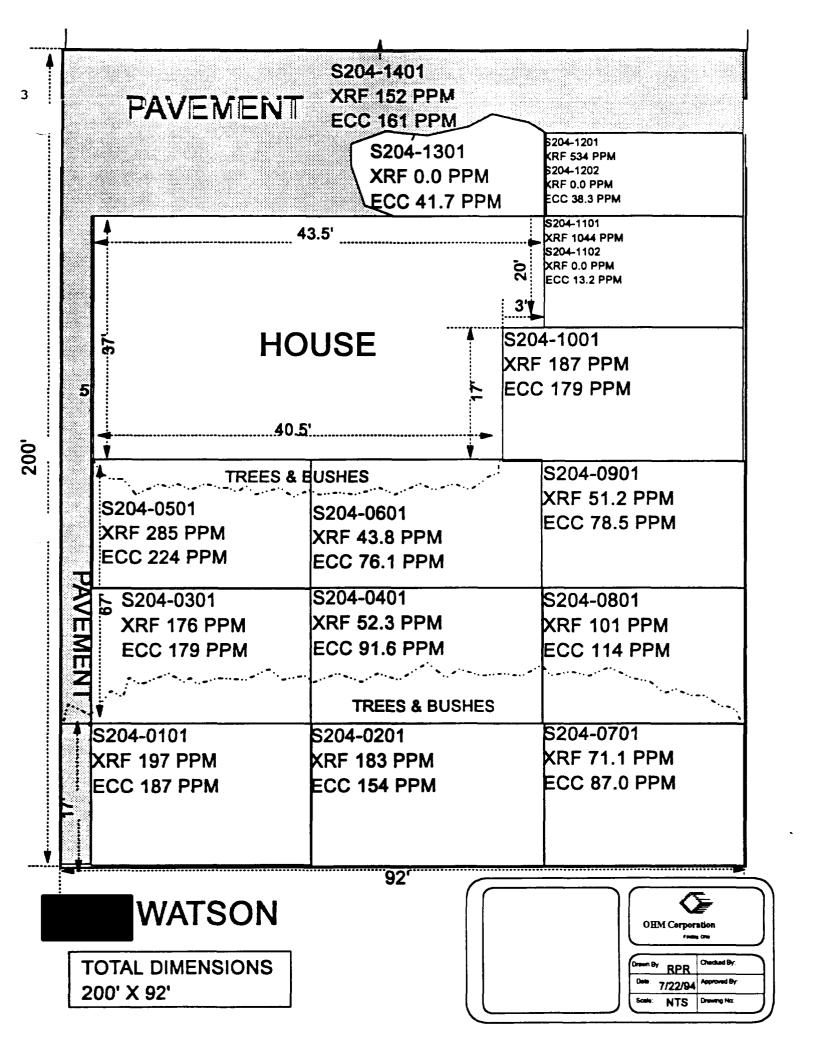
### **QUANTITY SUMMARY**

SITE NAME WATSON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
204	172	36	32.9	10 LOADS		SEED	2 LOADS	1 LOAD

# ECC RESULTS WATSON

SECTION NUMBER	RESULTS MG/KG
S204-0101	187
S204-0201	154
S204-0301	179
S204-0401_	91.6
S204-0501	224
S204-0601	76.1
S204-0701	87
S204-0801	114
S204-0901	78.5
S204-1001	179
S204-1102	13.2
S204-1202	38.2
S204-1301	41.7
S204-1401	161
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### WATSON STREET

Action Date: June 9, 1994
Loadout: July 24, 1994
Restoration Begins: July 25, 1994
Restoration Completed: August 1, 1994

- ► Visual contamination was excavated yielding an estimated 402 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- There was no special waste.
- ► This lot was undeveloped so seed and straw mulch was not applied. When backfilling this lot soil was used as necessary to match existing landscape in the surrounding area.
- Equipment utilized during excavation:
  - PC90 Track Excavator
  - John Deere 310D Backhoe
  - John Deere 444 Loader
  - Takeuchi TL26 Trackloader
  - 753 Bobcat
  - 17KW generator
  - PC150 Trackhoe
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
  - Quantity Summaries:
  - See Figure BH.1
- Verification Analytical:
  - See Figure BH.2



**Action Date:** 

July 9, 1994

Loadout:

July 25, 1994

**Restoration Begins:** 

July 26, 1994

**Restoration Completed:** 

August 4, 1994

- ► Visual contamination was excavated yielding an estimated 690 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 306 cubic yards of special waste and was shipped to Laidlaw, Roxanna. Excavation averaged 2 ½ to 3 feet in depth.
- ► This lot was undeveloped so seed and straw mulch was not applied. When backfilling this lot soil was used as necessary to match existing landscape in the surrounding area.
- Equipment utilized during excavation:
  - PC150 Track Excavator
  - PC90 Trackhoe
  - John Deere 544 Loader
  - Takeuchi TL26 Trackloader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
- Quantity Summaries:
  - See Figure BI.1
- Verification Analytical:
  - See Figure BI.2

## **QUANTITY SUMMARY**

SITE NAME



SITE #	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
203	402		28.85	41 LOADS		SEED		

# ECC RESULTS WATSON

SECTION NUMBER	RESULTS MG/KG
S203-0101	22.4
S203-0201	69.9
\$203-0301	75
S203-0401	66.4
S203-0501	37.5
S203-0601	150
S203-0701	68.6
S203-0801	63.7
S203-0901	288
S203-1001	134
\$203-1101	89.2
S203-1201	51,1
S203-1303	317
S203-1402	245
S203-1501	117
S203-1601	63.2
S203-1701	402
S203-1802	109
S203-1901	215
\$203-2001	158
S203-2102	55.2
S203-2201	386
S203-2301	208
\$203-2401	144

**OHM Corporation** 

Drawn By: RPR | Checked By:

7/29/94 Approved By:

NTS Draweng No.

**SPECIAL** 

**TREES** 

**TOTAL DIMENSIONS** 165' X 107'

# WATSON STREET

Action Date: July 9, 1994
Loadout: July 25, 1994
Restoration Begins: July 26, 1994
Restoration Completed: August 4, 1994

- Visual contamination was excavated yielding an estimated 690 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 306 cubic yards of special waste and was shipped to Laidlaw, Roxanna. Excavation averaged 2 1/2 to 3 feet in depth.
- ► This lot was undeveloped so seed and straw mulch was not applied. When backfilling this lot soil was used as necessary to match existing landscape in the surrounding area.
- Equipment utilized during excavation:
  - PC150 Track Excavator
  - PC90 Trackhoe
  - John Deere 544 Loader
  - Takeuchi TL26 Trackloader
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
- Quantity Summaries:
  - See Figure BI.1
- Verification Analytical:
  - See Figure BI.2

## QUANTICY SUMMARY

SITE NAME



SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
201	690	306	28.85		69 LOADS		SEED		

# ECC RESULTS WATSON

SECTION NUMBER	RESULTS MG/KG
S201-0101	49.4
S201-0201	36.7
S201-0302	108
S201-0402	47.1
S201-0501	137
S201-0601	91.3
S201-0702	98.2
S201-0801	333
S201-0901	216
S201-1001	286
S201-1101	137
S201-1202	118
S201-1301	196
S201-1402	48.2
S201-1501	370
S201-1602	164
S201-1701	129
S201-1802	17.9
S201-1901	163
S201-2001	194
S201-2101	228
S201-2201	63.1
S201-2301	20.3
S201-2401	16.6

5201 -01 01	<b>\$</b> 201 -0201	S201 -0301	S201 -0401
XRF 222 PPM	XRF O.O PPM	XRF 499.7 PPM	XRF 6492 PPM
ECC 49.4 PPM	ECC 36.7 PPM	\$201 `-0302	S201 -0401
		XRF 71 .1 PPM	XRF O.O PPM
		ECC 1 OB PPM	ECC 47.1 PPM
B201 -0501	<b>\$201 -0601</b>	8201 -0701	\$201 -0801
KRF 87.5 PPM	XRF 29.0 PPM	XRF 665 PPM	XRF 268.3 PPM
ECC 137 PPM	ECC 91 .3 PPM	<b>\$201 -0702</b>	ECC 333 PPM
		XRF 50.0 PPM ECC 98.2 PPM	
8201 -0901 KRF 1 72 PPM	\$201 -1 001 XRF 202 PPM	\$201 -1 1 01 XRF 1 04 PPM	\$201 -1 201 XRF 1 056 PPM
ECC 21 6 PPM	ECC 286 PPM	ECC 1 37 PPM	5201 -1 202
ECC ZI G PPM	ECC 266 PPM		XRF 85.8 PPM
			ECC 118 PPM
3201 -1 301 (RF 1 55 PPM ECC 1 96 PPM	\$201 -1 401 XRF 1 01 1 PPM \$201 -1 402 XRF 1 5.9 PPM ECC 48.2 PPM	\$201 -1 501 XRF 31 2 PPM ECC 370 PPM	S201 -1 601 XRF 689 PPM S201 -1 602 XRF 1 1 5 PPM ECC 1 64 PPM
3201 -1 701 (RF 61 .4 PPM ECC 1 29 PPM	\$201 -1 801 XRF 866 PPM \$201 -1 802 XRF 0.0 PPM ECC 1 7.9 PPM	S201 -1 901 XRF 91 .0 PPM ECC 1 63 PPM	S201 -2001 XRF 1 04 PPM ECC 1 94 PPM
3201 -21 01 (RF 1 89 PPM ECC 228 PPM	\$201 -2201 XRF 33.5 PPM ECC 63.1 PPM	\$201 -2301 XRF 0.0 PPM ECC 20.3 PPM	S201 -2401 XRF 0.0 PPM ECC 1 6.6 PPM

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# **WATSON**

TOTAL DIMENSIONS 165' X 107'







OHM Corporation

Date 7/28/94 Approved By:
Scale. NTS Drewing No:

# WATSON STREET

**Action Date:** 

July 9, 1994

Loadout:

July 25, 1994

**Restoration Begins:** 

July 29, 1994

**Restoration Completed:** 

August 4, 1994

- Visual contamination was excavated yielding an estimated 690 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- ► The remaining excavation yielded an estimated 90 cubic yards of special waste and was shipped to Laidlaw, Roxanna. Excavation averaged 1 ½ to 2 feet in depth.
- ► This lot was undeveloped so seed and straw mulch was not applied. When backfilling this lot soil was used as necessary to match existing landscape in the surrounding area. The house on this lot has burned down years ago. The old foundation was full of debris and was left as found.
- Equipment utilized during excavation:
  - PC150 Track Excavator
  - John Deere 444 Loader
  - Takeuchi TL26 Trackloader
  - 753 Bobcat
  - 15KW Generator
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
- Quantity Summaries:
  - See Figure BJ.1

- Verification Analytical:
  - See Figure BJ.2

## QUANTI. . SUMMARY

SITE NAME

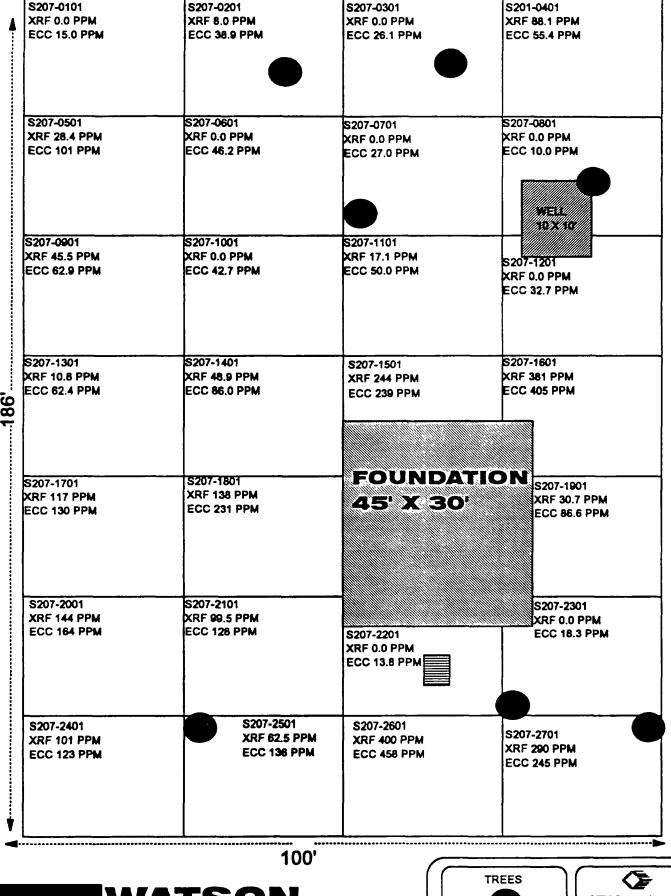
WATSON

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
207	287	90			1 LOAD		SEED	7 LOADS	

# ECC RESULTS WATSON

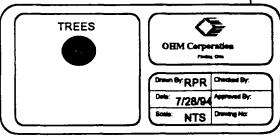
SECTION NUMBER	RESULTS MG/KG	SECTION NUMBER	RESULTS MG/KG
S207-0101	29.8		
S207-0201	163		
S207-0301	183		
S207-0401	85.7		
S207-0501	63.5		
S207-0601	15.9		
S207-0701	8.1		
S207-0801	60,6		
S207-0901	20.7		
S207-1001	15.1		
S207-1101	66.8		
S207-1201	40		
S207-1301	21.7		
S207-1401	66.5		
S207-1501	71.4		
S207-1601	14.7		
S207-1701	55.1		
S207-1801	54.1		
S207-1901	22.8		
S207-2001	74.8		
S207-2101	64.6		
S207-2201	82.6		
S207-2301	65		
S207-2401	170		
S207-2501	120		
S207-2601	87.7		
S207-2701	134		

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# WATSON

TOTAL DIMENSIONS 186' X 100'





Action Date:

Loadout:

Restoration Begins:

Restoration Completed:

July 10, 1994

July 25, 1994

August 4, 1994

Watered: August 4 through August 29, 1994

▶ Visual contamination was excavated yielding an estimated 253 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.

- The remaining excavation yielded an estimated 90 cubic yards of special waste which was shipped to Laidlaw, Roxanna. Excavation averaged 2 to 2 1/2 feet in depth.
- ► After seed was broadcast and mulched with straw, OHM crews watered until grass was stable.
- Equipment utilized during excavation:
  - 753 Bobcat
  - PC90 Trackhoe
  - John Deere 444 Loader
  - Takeuchi TL26 Trackloader
  - John Deere 310D Backhoe
  - Ingersol 7 1/2 Ton Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
  - · L. Wolfe Co.
    - Restoration
- Quantity Summaries:
  - See Figure BK.1

- Verification Analytical:
  - See Figure BK.2

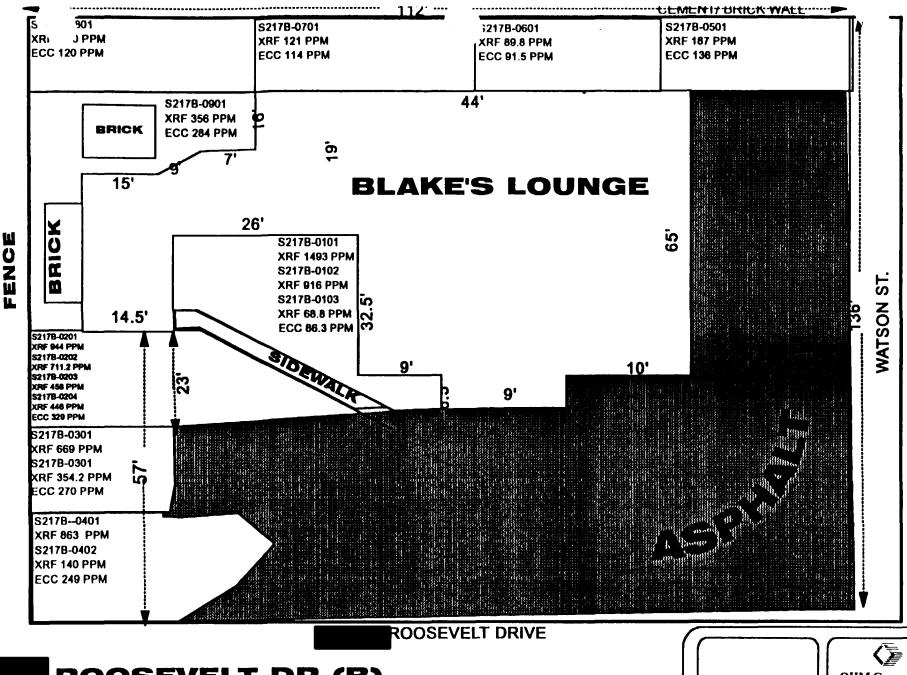
## QUANTI) . SUMMARY

# SITE NAME \_\_\_\_\_ROOSEVELT

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
217A	253	90	20.2	215.03			SEED	3 LOADS	1 LOAD

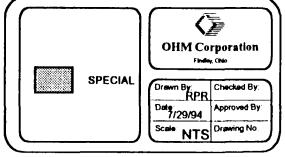
# ECC RESULTS ROOSAVELT

<b>SECTION NUMBER</b>	RESULTS MG/KG
S217-0101	118
S217-0201	166
S217-0301	96.1
S217-0401	287
S217-0501	413
S217-0601	123
S217-0702	270
S217-0801	140
\$217-0902	137
S217-1002	224
S217-1102	215



**ROOSEVELT DR.(B)** 

TOTAL DIMENSIONS 112' X 136'



# ROOSEVELT

**Action Date:** 

July 10, 1994

Loadout:

July 25, 1994

**Restoration Begins:** 

July 27, 1994

Restoration Completed:

August 4, 1994

Watered:

August 4 through August 29, 1994

- Visual contamination was excavated yielding an estimated 57 cubic yards of hazardous waste, which was shipped to the Trust 454 site for stabilization.
- The remaining excavation yielded an estimated 90 cubic yards of special waste which was shipped to Laidlaw, Roxanna. Excavation averaged 2 to 2 1/2 feet in depth.
- During the excavation of this lot, the sidewalk running between #217A and #217B was broke. This sidewalk was repaired.
- Equipment utilized during excavation:
  - 753 Bobcat
  - John Deere 444 Loader
  - Takeuchi TL26 Trackloader
  - John Deere 310D Backhoe
  - Ingersol 7 1/2 Ton Roller
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste
  - Metro East
    - Stone
    - Backfill
  - Cunningham Haulers
    - Special Waste
  - L. Wolfe Co.
    - Restoration
- Quantity Summaries:
  - See Figure BL.1

- ► Verification Analytical:
  - See Figure BL.2

# QUANTIT , SUMMARY

SITE NAME

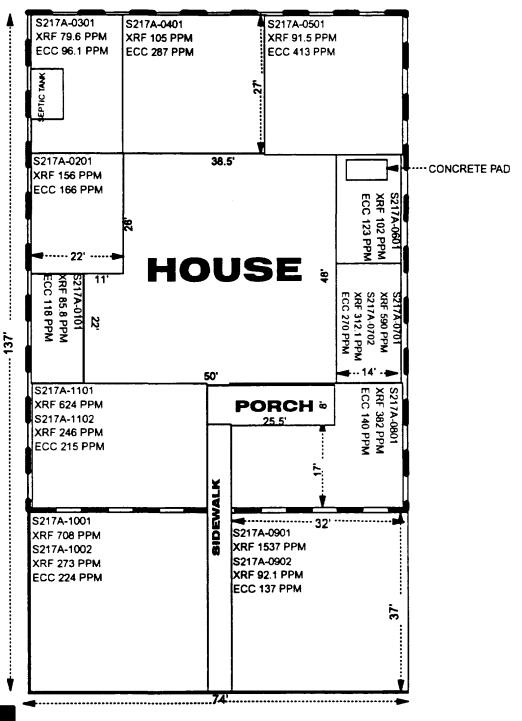
ROOSEVELT

SITE#	HAZ CU YD	SPEC CU YD	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
217B	57	90	8.65	92.16			SEED	1 LOAD	

# ECC RESULTS ROOSAVELT

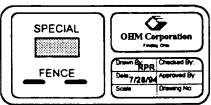
SECTION NUMBER	RESULTS MG/KG
S217-0103	86.3
S217-0204	329
S217-0302	270
S217-0402	249
S217-0501	136
S217-0601	91.5
S217-0701	114
S217-0801	120
S217-0901	284

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# ROOSEVELT DR. (A)

TOTAL DIMENSIONS 74' X 137'



#### **PUG MILL**

- ► An estimated 7180 tons of hazardous waste was processed through the pug mill as explained in Section 4.5.3 of this report.
- ► An estimated 8259 tons of treated special waste was shipped from the pug mill site to Laidlaw, Roxanna.
- ► The additional tonage is due to the reagent and water mixture applied to the soil going through the pug mill process.
- Equipment utilized during excavation:
  - Komatsu PC220 Track Excavator
  - John Deere 444 Loader
  - 753 Bobcat Skidsteer
  - Komatsu PC150 Track Excavator
  - 853 Bobcat Skidsteer
  - Takeuchi TL26 Track Loader
  - John Deere 644 Loader
  - John Deere 544 Loader
  - Komatsu WA180 Loader
  - Pug mill
  - Belt Feeder
  - Power Screen
  - 3 Conveyers
  - Silo
  - Auger Feeder
  - Pig (cement storage)
  - 2 50,000 Storage Pools
  - 1 12' x 70' Storage Building
- Subcontractors:
  - AWS Haulers
    - Hauled Hazardous Waste coming to Pad
  - Cunningham Haulers
    - Treated Special Waste
  - Beelman Transportation
    - Treated Special Waste
    - Portland Cement and Pig

- Inetgra Plastic
  - Geotextile Liner
- Cox Electric
  - Electrical
- L. Wolfe Co.
  - Asphalt
  - Stone
- Bollmeier Crane Service
  - Set-up
- Quantity Summaries:
  - See Figure AV.1
- Verification Analytical:
  - See Figure AV.2

## **QUANTITY SUMMARY**

SITE NAME

**PUGMILL** 

SITE#	HAZ CU YD	STABILIZED	CA-7 TONS	CA-6 TONS	BACKFILL	SAND	SEED/SOD	BACKFILL	ROCK
1459 STATE	7167.96	*8259,61		491.12					

\*ALL PUGMILL WASTE WAS STABILIZED WASTE THAT WAS SHIPPED TO LAIDLAW AFTER PROCESSING PROCESSING PERCENT OF REAGENT AND WATER=13.5%

## OHM CORPORATION PROJECT 13407 GRANITE CITY, IL 03/09/95

## **ECC RESULTS-PUG MILL**

# SECTION NUMBER RESULTS MG/L SECTION NUMBER RESULTS MG/L

S006-P01   BDL   S201-P06   BDL				
S006-P02         BDL         \$201-P06         BDL           \$07,5-P01         BDL         \$201-P07         BDL           \$07,5-P02         BDL         \$201-P08         BDL           \$07,5-P03         BDL         \$202-P01         BDL           \$013-P01         BDL         \$203-P01         BDL           \$013-P02         BDL         \$203-P02         BDL           \$013-P03         BDL         \$203-P03         BDL           \$013-P01         BDL         \$204-P01         0.35           \$019-P01         BDL         \$204-P01         0.35           \$019-P02         BDL         \$204-P01         0.35           \$019-P01         BDL         \$204-P01         0.35           \$019-P02         BDL         \$204-P01         0.35           \$019-P01         BDL         \$204-P01         0.34           \$36.5-P01         BDL         \$204-P01         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL </td <td>S006-P01</td> <td>BDL</td> <td>S201-P05</td> <td>BDL</td>	S006-P01	BDL	S201-P05	BDL
S07.5-P01         BDL         S201-P07         BDL           S07.5-P02         BDL         S201-P08         BDL           S07.5-P03         BDL         S202-P01         BDL           S013-P01         BDL         S203-P01         BDL           S013-P02         BDL         S203-P03         BDL           S013-P03         BDL         S203-P03         BDL           S013-P01         BDL         S204-P01         0.35           S019-P01         BDL         S204-P02         0.34           S36.5-P01         BDL         S206-P01         BDL           S049-P01         BDL         S206-P01         BDL           S049-P01         BDL         S206-P01         BDL           S049-P03         0.42         S206-P03         BDL           S049-P04         BDL         S206-P05         BDL           S049-P05         BDL         S206-P06         BDL           S053-P01         BDL         S206-P06         BDL           S053-P01         BDL         S207-P01         BDL           S053-P03         BDL         S207-P02         BDL           S062-P01         BDL         S210-P01         BDL	S006-P02	BDL	\$201-P06	BDL
S07.5-P03         BDL         \$202-P01         BDL           \$013-P01         BDL         \$203-P01         BDL           \$013-P02         BDL         \$203-P02         BDL           \$013-P03         BDL         \$203-P03         BDL           \$019-P01         BDL         \$204-P01         0.35           \$019-P02         BDL         \$204-P01         0.35           \$019-P02         BDL         \$206-P01         BDL           \$36.5-P01         BDL         \$206-P01         BDL           \$049-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P06         BDL           \$049-P05         BDL         \$206-P07         BDL           \$049-P05         BDL         \$206-P07         BDL           \$053-P01         BDL         \$206-P07         BDL	S07.5-P01	BDL	S201-P07	
S07.5-P03         BDL         \$202-P01         BDL           \$013-P01         BDL         \$203-P01         BDL           \$013-P02         BDL         \$203-P02         BDL           \$013-P03         BDL         \$203-P03         BDL           \$019-P01         BDL         \$204-P01         0.35           \$019-P02         BDL         \$204-P02         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$36.5-P01         BDL         \$206-P01         BDL           \$3049-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$049-P05         BDL         \$206-P07         BDL           \$049-P05         BDL         \$206-P07         BDL           \$053-P04         BDL         \$206-P07         BDL           \$053-P05         BDL         \$207-P01         BDL	S07.5-P02	BDL	S201-P08	BDL
S013-P01         BDL         \$203-P01         BDL           \$013-P02         BDL         \$203-P02         BDL           \$013-P03         BDL         \$203-P03         BDL           \$019-P01         BDL         \$204-P01         0.35           \$019-P02         BDL         \$204-P01         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$349-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL	S07.5-P03	BDL	S202-P01	
S013-P02         BDL         \$203-P02         BDL           S013-P03         BDL         \$203-P03         BDL           S019-P01         BDL         \$204-P01         0.35           S019-P02         BDL         \$204-P02         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$36.5-P01         BDL         \$206-P02         0.37           \$349-P01         BDL         \$206-P03         BDL           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P04         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$207-P01         BDL           \$053-P01         BDL         \$207-P01         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P03         BDL           \$062-P01         BDL         \$207-P01         BDL           \$062-P02         BDL         \$210-P01         BDL	S013-P01	BDL	S203-P01	
S013-P03         BDL         S203-P03         BDL           S019-P01         BDL         \$204-P01         0.35           S019-P02         BDL         \$204-P02         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$349-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$206-P07         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P01         BDL           \$053-P04         BDL         \$207-P02         BDL           \$053-P03         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P02         BDL      <	S013-P02	BDL	S203-P02	
S019-P02         BDL         \$204-P02         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$049-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P03         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$206-P07         BDL           \$053-P01         BDL         \$207-P01         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P01         BDL           \$053-P04         BDL         \$207-P02         BDL           \$053-P03         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P01         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$62.5-P01         BDL         \$214-P02         BDL      <	S013-P03	BDL	S203-P03	<u> </u>
S019-P02         BDL         \$204-P02         0.34           \$36.5-P01         BDL         \$206-P01         BDL           \$049-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P04         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$206-P07         BDL           \$053-P01         BDL         \$207-P01         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P02         BDL           \$053-P04         BDL         \$207-P02         BDL           \$062-P03         BDL         \$210-P01         BDL           \$062-P01         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P03         BDL         \$214-P02         BDL	S019-P01	BDL	\$204-P01	0.35
S049-P01         BDL         \$206-P02         0.37           \$049-P02         BDL         \$206-P03         BDL           \$049-P03         0.42         \$206-P04         BDL           \$049-P04         BDL         \$206-P05         BDL           \$049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$206-P07         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P02         BDL           \$053-P03         BDL         \$207-P03         BDL           \$053-P04         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$62.5-P03         BDL         \$214-P02         BDL           \$62.5-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$217-P03         BDL <t< td=""><td>S019-P02</td><td>BDL</td><td>S204-P02</td><td></td></t<>	S019-P02	BDL	S204-P02	
S049-P01         BDL         S206-P02         0.37           S049-P02         BDL         S206-P03         BDL           S049-P03         0.42         S206-P04         BDL           S049-P04         BDL         S206-P05         BDL           S049-P05         BDL         S206-P06         BDL           S053-P01         BDL         S206-P07         BDL           S053-P02         BDL         S207-P01         BDL           S053-P03         BDL         S207-P02         BDL           S053-P04         BDL         S207-P03         BDL           S062-P01         BDL         S210-P01         BDL           S062-P02         BDL         S210-P02         BDL           S062-P03         BDL         S211-P01         BDL           S62-P03         BDL         S211-P01         BDL           S62-5-P03         BDL         S214-P01         BDL           S62-5-P03         BDL         S214-P02         BDL           S065-P01         BDL         S214-P03         BDL           S065-P02         BDL         S217-P03         BDL           S065-P03         BDL         S217-P02         BDL <tr< td=""><td>\$36.5-P01</td><td>BDL</td><td>S206-P01</td><td>BDL</td></tr<>	\$36.5-P01	BDL	S206-P01	BDL
S049-P03         0.42         S206-P04         BDL           S049-P04         BDL         S206-P05         BDL           S049-P05         BDL         S206-P06         BDL           S053-P01         BDL         S206-P07         BDL           S053-P02         BDL         S207-P01         BDL           S053-P03         BDL         S207-P02         BDL           S053-P04         BDL         S207-P03         BDL           S062-P01         BDL         S210-P01         BDL           S062-P02         BDL         S210-P02         BDL           S062-P03         BDL         S211-P01         BDL           S62.5-P01         BDL         S214-P01         BDL           S62.5-P02         BDL         S214-P02         BDL           S62.5-P03         BDL         S214-P03         BDL           S065-P01         BDL         S214-P04         BDL           S065-P02         BDL         S217-P01         0.32           S065-P03         BDL         S217-P02         BDL           S65.5-P01         BDL         S217-P03         BDL           S65.5-P02         BDL         S217-P03         BDL	S049-P01	BDL	S206-P02	
S049-P04         BDL         S206-P05         BDL           S049-P05         BDL         S206-P06         BDL           S053-P01         BDL         S206-P07         BDL           S053-P02         BDL         S207-P01         BDL           S053-P03         BDL         S207-P02         BDL           S053-P04         BDL         S207-P03         BDL           S062-P01         BDL         S210-P01         BDL           S062-P02         BDL         S210-P02         BDL           S062-P03         BDL         S211-P01         BDL           S62.5-P01         BDL         S214-P01         BDL           S62.5-P02         BDL         S214-P02         BDL           S62.5-P03         BDL         S214-P03         BDL           S065-P01         BDL         S214-P04         BDL           S065-P02         BDL         S217-P01         0.32           S065-P03         BDL         S217-P02         BDL           S65.5-P01         BDL         S217-P03         BDL           S65.5-P02         BDL         S1217-P02         BDL           S104-P01         0.31         S1217-P02         BDL	S049-P02	BDL	S206-P03	BDL
S049-P05         BDL         \$206-P06         BDL           \$053-P01         BDL         \$206-P07         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P02         BDL           \$053-P04         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P02         BDL         \$214-P02         BDL           \$065-P03         BDL         \$217-P01         0.32           \$065-P02         BDL         \$217-P02         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P01         BDL         \$217-P01         BDL           \$65.5-P02         BDL         \$1217-P02         BDL           \$104-P01         0.31         \$1217-P02         BDL	S049-P03	0.42	S206-P04	BDL
S053-P01         BDL         \$206-P07         BDL           \$053-P02         BDL         \$207-P01         BDL           \$053-P03         BDL         \$207-P02         BDL           \$053-P04         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$062-P03         BDL         \$214-P01         BDL           \$062-P03         BDL         \$214-P02         BDL           \$062-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$214-P04         BDL           \$065-P02         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P02         BDL           \$055-P01         BDL         \$217-P03         BDL           \$055-P02         BDL         \$1217-P01         BDL           \$055-P02         BDL         \$1217-P02         BDL <tr< td=""><td>S049-P04</td><td>BDL</td><td>S206-P05</td><td>BDL</td></tr<>	S049-P04	BDL	S206-P05	BDL
S053-P02         BDL         \$207-P01         BDL           S053-P03         BDL         \$207-P02         BDL           S053-P04         BDL         \$207-P03         BDL           \$062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P02         BDL         \$214-P02         BDL           \$62.5-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$214-P04         BDL           \$065-P02         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P03         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P01         BDL         \$1217-P01         BDL           \$65.5-P02         BDL         \$1217-P01         BDL           \$105-P01         BDL         \$000-P01         BDL           \$105-P01         BDL         \$1000-P01         BDL	S049-P05	BDL	\$206-P06	BDL
S053-P03         BDL         \$207-P02         BDL           S053-P04         BDL         \$207-P03         BDL           S062-P01         BDL         \$210-P01         BDL           S062-P02         BDL         \$210-P02         BDL           S062-P03         BDL         \$211-P01         BDL           S62.5-P01         BDL         \$214-P01         BDL           S62.5-P02         BDL         \$214-P02         BDL           S62.5-P03         BDL         \$214-P03         BDL           S065-P01         BDL         \$214-P04         BDL           S065-P02         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P02         BDL           S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           S104-P01         0.31         \$1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P09         BDL	S053-P01	BDL	\$206-P07	BDL
S053-P03         BDL         \$207-P02         BDL           S053-P04         BDL         \$207-P03         BDL           S062-P01         BDL         \$210-P01         BDL           S062-P02         BDL         \$210-P02         BDL           S062-P03         BDL         \$211-P01         BDL           S62.5-P01         BDL         \$214-P01         BDL           S62.5-P02         BDL         \$214-P02         BDL           S62.5-P03         BDL         \$214-P03         BDL           S065-P01         BDL         \$214-P04         BDL           S065-P02         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P02         BDL           S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           S104-P01         0.31         \$1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P09         BDL	S053-P02	BDL	\$207-P01	BDL
S062-P01         BDL         \$210-P01         BDL           \$062-P02         BDL         \$210-P02         BDL           \$062-P03         BDL         \$211-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P02         BDL         \$214-P02         BDL           \$62.5-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$214-P04         BDL           \$065-P02         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P02         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P02         BDL         \$1217-P01         BDL           \$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL	S053-P03	BDL		l — — — — — — — — — — — — — — — — — — —
S062-P02         BDL         \$210-P02         BDL           S062-P03         BDL         \$211-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P02         BDL         \$214-P02         BDL           \$62.5-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$214-P04         BDL           \$065-P02         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P02         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P02         BDL         \$1217-P01         BDL           \$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL	S053-P04	BDL	<b>S207-P03</b>	BDL
S062-P03         BDL         \$211-P01         BDL           \$62.5-P01         BDL         \$214-P01         BDL           \$62.5-P02         BDL         \$214-P02         BDL           \$62.5-P03         BDL         \$214-P03         BDL           \$065-P01         BDL         \$214-P04         BDL           \$065-P02         BDL         \$217-P01         0.32           \$065-P03         BDL         \$217-P02         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P02         BDL         \$1217-P01         BDL           \$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL	S062-P01	BDL	S210-P01	BDL
S62.5-P01         BDL         \$214-P01         BDL           S62.5-P02         BDL         \$214-P02         BDL           S62.5-P03         BDL         \$214-P03         BDL           S065-P01         BDL         \$214-P04         BDL           S065-P02         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P02         BDL           S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           S104-P01         0.31         \$1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P01         BDL           S105-P03         BDL         OVER-P09         BDL	S062-P02	BDL	\$210-P02	BDL
S62.5-P02         BDL         \$214-P02         BDL           S62.5-P03         BDL         \$214-P03         BDL           S065-P01         BDL         \$214-P04         BDL           S065-P02         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P02         BDL           S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           S104-P01         0.31         \$1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P01         BDL           S105-P03         BDL         OVER-P09         BDL	S062-P03	BDL	\$211-P01	BDL
S62.5-P03         BDL         S214-P03         BDL           S065-P01         BDL         S214-P04         BDL           S065-P02         BDL         S217-P01         0.32           S065-P03         BDL         S217-P02         BDL           S65.5-P01         BDL         S217-P03         BDL           S65.5-P02         BDL         S1217-P01         BDL           S104-P01         0.31         S1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S62.5-P01	BDL	\$214-P01	BDL
S065-P01         BDL         \$214-P04         BDL           S065-P02         BDL         \$217-P01         0.32           S065-P03         BDL         \$217-P02         BDL           S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           S104-P01         0.31         \$1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S62.5-P02	BDL	\$214-P02	BDL
S065-P02         BDL         S217-P01         0.32           S065-P03         BDL         S217-P02         BDL           S65.5-P01         BDL         S217-P03         BDL           S65.5-P02         BDL         S1217-P01         BDL           S104-P01         0.31         S1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S62.5-P03	BDL	S214-P03	BDL
S065-P03         BDL         \$217-P02         BDL           \$65.5-P01         BDL         \$217-P03         BDL           \$65.5-P02         BDL         \$1217-P01         BDL           \$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL	S065-P01	BDL	\$214-P04	BDL
S65.5-P01         BDL         \$217-P03         BDL           S65.5-P02         BDL         \$1217-P01         BDL           \$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL	S065-P02	BDL	S217-P01	0.32
S65.5-P02         BDL         S1217-P01         BDL           S104-P01         0.31         S1217-P02         BDL           S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S065-P03	BDL	<u> </u>	<del></del>
\$104-P01         0.31         \$1217-P02         BDL           \$105-P01         BDL         OVER-P01         BDL           \$105-P02         BDL         OVER-P09         BDL           \$105-P03         BDL         OVER-P10         BDL		BDL	\$217-P03	<del></del>
S105-P01         BDL         OVER-P01         BDL           S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S65.5-P02	BDL	S1217-P01	BDL
S105-P02         BDL         OVER-P09         BDL           S105-P03         BDL         OVER-P10         BDL	S104-P01		S1217-P02	BDL
S105-P03 BDL OVER-P10 BDL	S105-P01	BDL	OVER-P01	BDL
	S105-P02	BDL	OVER-P09	BDL
S123-P01 BDL OVER-P11 BDL	S105-P03	BDL	OVER-P10	
	S123-P01	BDL	OVER-P11	<u> </u>
S201-P01 BDL OVER-P12 BDL		BDL	OVER-P12	
S201-P02 BDL OVER-P13 BDL		BDL		BDL
S201-P03 BDL OVER-P14 BDL		BDL		<u> </u>
S201-P04 BDL OVER-P15 BDL	S201-P04	BDL	OVER-P15	BDL

